Pioneer sound.vision.soul

Service Manual

ORDER NO. ARP3185

PLASMA DISPLAY PLASMA DISPLAY PLASMA DISPLAY

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Туре	Model	Power Requirement	Remarks		
туре	PDP-504PG	rower Requirement	iveillaiks		
TLDFR	0	AC110 - 240V			

• This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
PDP-504PE/ WYVI6	ARP3176	SAFETY INFORMATION, EXPLODED VIEWS AND PARTS LIST, BLOCK DIAGRAM, PCB PARTS LIST, ADJUSTMENT, IC INFORMATION etc.

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The

 ↑ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to **▼** mark on product are used for disassembly.
- Reference Nos. indicate the pages and Nos. in the service manual for the base model.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
 Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

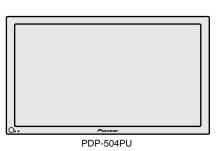
■ CONTRAST TABLE

PDP-504PG/TLDFR and PDP-504PE/WYVI6 are constructed the same except for the following :

			Pa	Part No.	
Ref. No.	Mark	Symbol and Description	PDP-504PE WYVI6	PDP-504PG TLDFR	Remarks
		PACKING			
P9 - 2	<u> </u>	Power Cord	ADG1214	Not used	
P9 - 7	NSP	Warranty Card	ARY1114	Not used	
P9 - 14		Upper Carton (504PE)	AHD3203	Not used	
P9 - 14		Upper Carton (504PG)	Not used	AHD3211	
P9 - 15		Vinyl Bag	AHG1310	Not used	
		REAR SECTION			
P19 - 3	NSP	Name Label (504PE)	AAL2488	Not used	
P19 - 3	NSP	Name Label (504PG)	Not used	AAL2508	

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Service Manual



ORDER NO. ARP3176

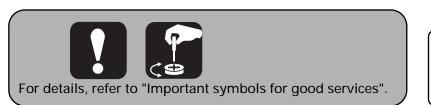
PLASMA DISPLAY

PDP-504PU PDP-504PE PRO-504PU

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-504PU	TUCK	AC110 - 240V	
PDP-504PE	WYVI6	AC220 - 240V	
PDP-504PE	WYVI6XK	AC220 - 240V	
PRO-504PU	KUC	AC120V	

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— Confirm it	
Commin	Serial No.
○○WYVI6	: □□ <u>SS</u> ######△△
○○WYVI6XK	: \(\subseteq \text{UK} \######\)

SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully. Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- · When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

PDP-504PU

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Leakage Current Cold Check

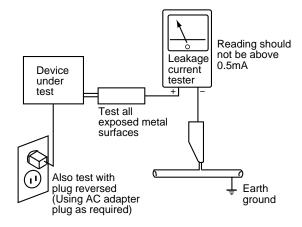
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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■Charged Section

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The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. SW POWER SUPPLY Unit	(223V)
2. 50 X DRIVE Assy	(-230V to 223V)
3. 50 Y DRIVE Assy	(353V)
4. 50 SCAN (A) Assy	(353V)
5. 50 SCAN (B) Assy	(353V)
6. X CONNECTOR AAssy	(-230V to 223V)
7. X CONNECTOR B Assy	(-230V to 223V)

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

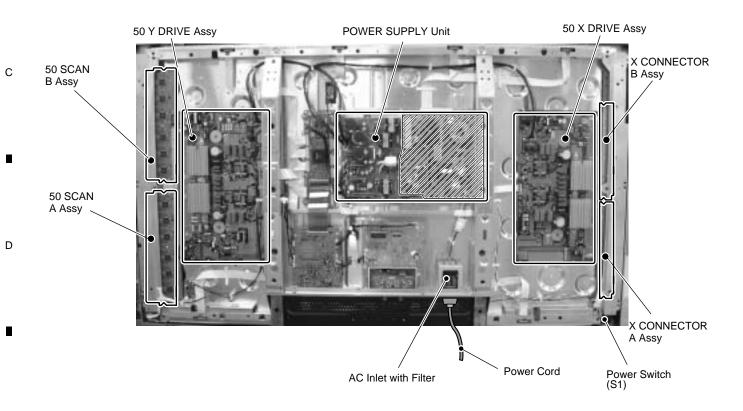


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

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2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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7.1.10 DISASSEMBLY	
7.2 IC INFORMATION	

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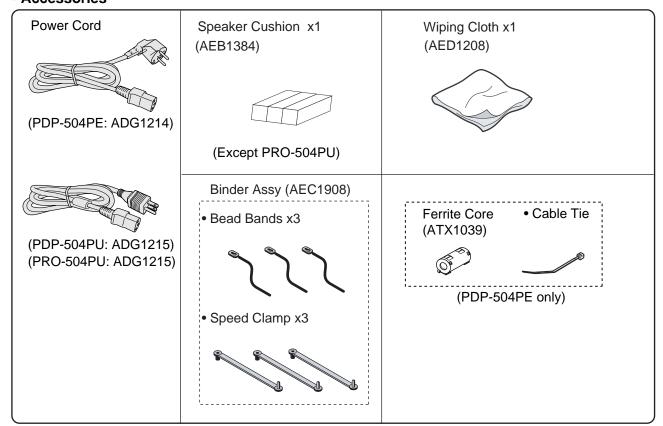
1. SPECIFICATIONS

50" Plasma Display

ltem	Model: PDP-504PU	Model: PDP-504PE
Number of Pixels	1280 x 768 pixels	1280 x 768 pixels
Audio Amplifier	13 W + 13 W (1kHz, 10%, 8Ω)	13 W + 13 W (1kHz, 10%, 8Ω)
Surround System	SRS/FOCUS/TruBass	SRS/FOCUS/TruBass
Power Requirement	110-240V AC,50/60Hz,363W (0.3W Standby,120V)	220-240V AC,50/60Hz,352W (0.5W Standby)
Dimensions	1270(W) x 737 (H) x 98 (D) mm (50 (W)x 29 (H)x 3 ⁷ /8 (D)inches)	1270(W) x 737 (H) x 98 (D) mm
Weight	38 kg (83.8 lbs.)	38 kg (83.8 lbs.)

ltem	Model: PRO-504PU
Number of Pixels	1280 x 768 pixels
Audio Amplifier	13 W + 13 W (1kHz, 10%, 8Ω)
Surround System	SRS/FOCUS/TruBass
Power Requirement	120V AC,60Hz,363W (0.3W Standby)
Dimensions	1270(W) x 737 (H) x 98 (D) mm (50 (W)x 29 (H)x 3 7/8(D)inches)
Weight	38 kg (83.8 lbs.)

Accessories



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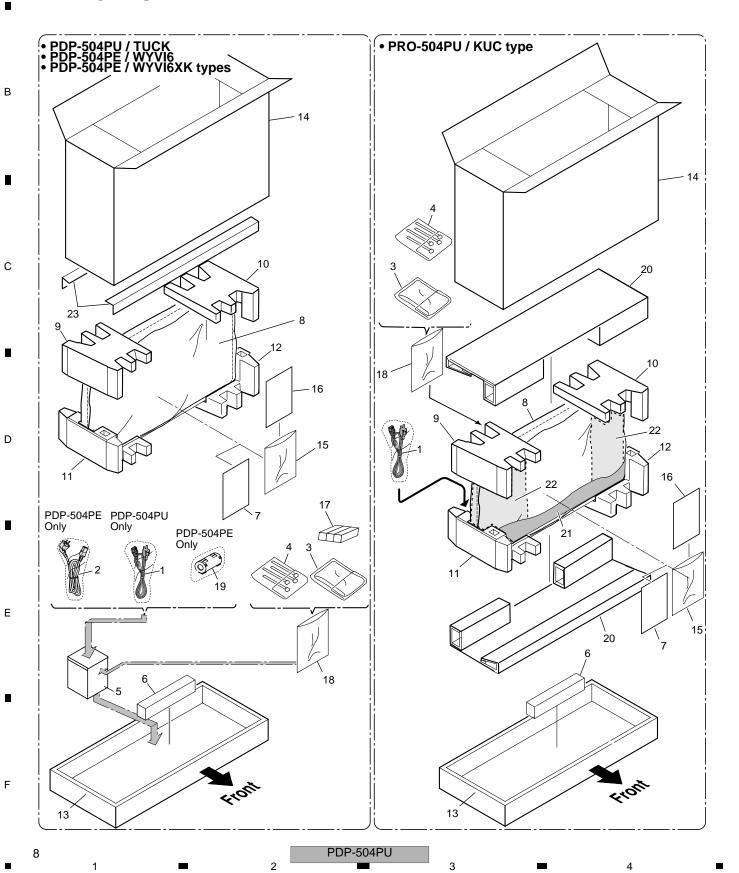
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2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- ullet Screws adjacent to lacktriangle mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING



PACKING Parts List

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Mark No	<u>o.</u>	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
<u> </u>	Р	Power Cord	See Contrast table (2)	13	Carton (50)	See Contrast table (2)
	2 P	Power Cord	See Contrast table (2)	14	Upper Carton (50)	See Contrast table (2) AHG1310
3	3 V	Viping Cloth	AED1208	15	Vinyl Bag	Angisiu
4	l B	Binder Assy	AEC1908			
5	5 C	Code Case	See Contrast table (2)	16	Caution Card	ARM1232
			, ,	17	Speaker Cushion	See Contrast table (2)
6	6 C	Center Pad (50)	AHA2335	18	Vinyl Bag S	See Contrast table (2)
NSP 7		Varranty Card	See Contrast table (2)	19	Ferrite Core	See Contrast table (2)
8	8 N	Airror Mat	See Contrast table (2)	20	Inner Carton	See Contrast table (2)
9) P	ad (PP T- L)	AHA2315			
10	0 P	ad (PP T- R)	AHA2316	21	Polyethirene Sheet	See Contrast table (2)
		,		22	Paper	See Contrast table (2)
11	1 P	ad (PP B- L)	AHA2343	23	Sub Carton	See Contrast table (2)
12	2 P	ad (PP B- R)	AHA2344			

(2) CONTRAST TABLE

PDP-504PU/ TUCK, PDP-504PE/ WYVI6, PDP-504PE/ WYVI6XK and PRO-504PU/ KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	PDP-504PU TUCK	PDP-504PE WYVI6	PDP-504PE WYVI6XK	PRO-504PU KUC
<u> </u>	1	Power Cord	ADG1215	Not used	Not used	ADG1215
<u> </u>	2	Power Cord	Not used	ADG1214	ADG1214	Not used
	5	Code Case	AHC1041	AHC1041	AHC1049	Not used
NSP	7	Warranty Card	ARY1138	ARY1114	ARY1114	ARY1134
	8	Mirror Mat	AHG1284	AHG1284	AHG1327	AHG1284
	13	Carton (50)	AHD3177	AHD3177	Not used	Not used
	13	Carton (50)	Not used	Not used	AHD3191	Not used
	13	Carton (50EL)	Not used	Not used	Not used	AHD3222
	14	Upper Carton (50PU)	AHD3178	Not used	Not used	Not used
	14	Upper Carton (504PE)	Not used	AHD3203	Not used	Not used
	14	Upper Carton (50)	Not used	Not used	AHD3190	Not used
	14	Upper Carton (50EL)	Not used	Not used	Not used	AHD3223
	17	Speaker Cushion	AEB1384	AEB1384	AEB1384	Not used
	18	Vinyl Bag S	AHG1338	AHG1338	Not used	AHG1338
	19	Ferrite Core	Not used	ATX1039	ATX1039	Not used
	20	Inner Carton	Not used	Not used	Not used	AHB1251
	21	Polyethirene Sheet	Not used	Not used	Not used	AHG1341
	22	Paper	Not used	Not used	Not used	AHG1343
	23	Sub Carton	AHB1248	AHB1248	AHB1248	Not used

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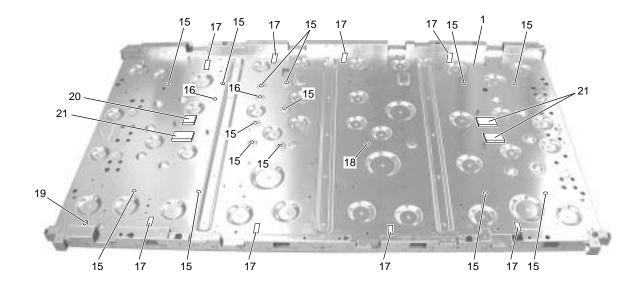
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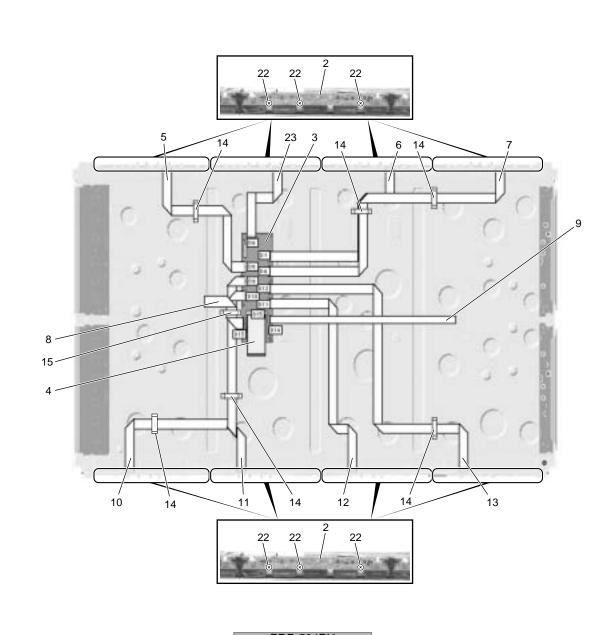
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2.2 CHASSIS SECTION (1)





CHASSIS SECTION (1) Parts List

Mark No.	<u>Description</u>	Part No.
	•	
NSP 1	P.Chassis (50) Assy	AWU1081
NSP 2	50 ADDRESS Assy	AWZ6839
3	DIGITAL VIDEO Assy	AWV2070
4	FPC (114P)	ADY1081
5	Flexible Cable (J201)	ADD1228
6	Flexible Cable (J203)	ADD1230
7	Flexible Cable (J204)	ADD1231
8	Flexible Cable (J209)	ADD1236
9	Flexible Cable (J210)	ADD1237
10	Flexible Cable (J205)	ADD1232
	,	
11	Flexible Cable (J206)	ADD1233
12	Flexible Cable (J207)	ADD1234
13	Flexible Cable (J208)	ADD1235
14	Flat Clamp	AEC1879
15	PCB Spacer	AEC1941
16	PCB Support	AEC1938
17	Wire Saddle	AEC1745
18	PCB Spacer	AEC1947
19	Wire Clip	AEC1948
20	Drive Siricon Sheet	AEH1066
21	Drive Siricon Sheet	AEH1065
22	Screw	VBB30P080FNI
23	Flexible Cable (J202)	ADD1229

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CHASSIS SECTION (2) Parts List

Mark No.	<u>Description</u>	Part No.
1	50 X DRIVE Assy	AWZ6808
2	50 Y DRIVE Assy	AWV2035
⚠ 3	POWER SUPPLY Unit	AXY1068
NSP 4	X CONNECTOR A Assy	AWZ6811
NSP 5	X CONNECTOR B Assy	AWZ6812
NSP 6	50 SCAN A Assy	AWZ6809
NSP 7	50 SCAN B Assy	AWZ6810
8	KEY CONTROL Assy	AWZ6789
9	PANEL SENSOR Assy	AWZ6795
10	3P Housing Wire (J109)	ADX2847
11	11P Housing Wire (J102)	ADX2853
12	12P Housing Wire(J103)	ADX2854
13	3P Housing Wire (J108)	ADX2857
14	Wire B (J106)	ADX2855
15	Screw	ABZ30P060FMC
16	Screw	PMB30P060FNI
17	Screw	VBB30P080FNI
18	Screw	PMB40P080FZK
19	Wire A (J101)	ADX2839
20	Nyron Rivet	AEC1671

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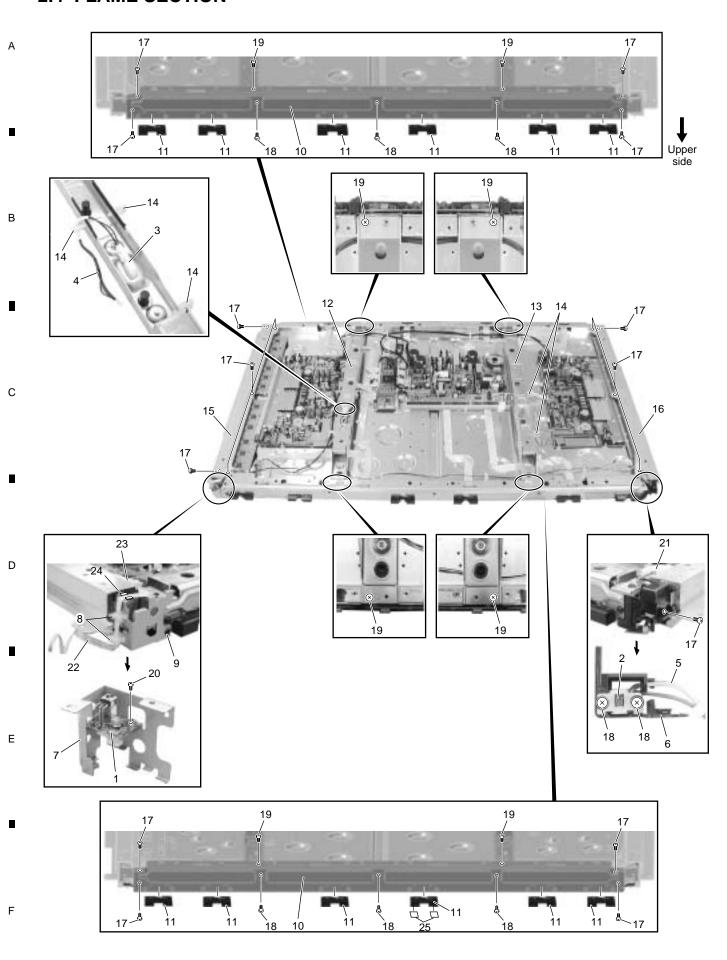
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2.4 FLAME SECTION

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Mark No	o. <u>Des</u>	<u>cription</u>	Part No.	
1	PANEL IR	Assy	AWZ6790	
<u> </u>	Power Sw	ritch (S1)	ASG1092	
3	Power Sw	ritch (S2)	ASG1089	
4	3P Housir	ng Wire (J107)	ADX2856	
5	5 Housing V	Vire (50) (J110)	ADX2858	
6	Switch Ho	older	AMR3349	
-	' IR Holder		ANG2551	
		dle	AEC1948	
9	Nyron Riv	et	AEC1671	
NSP 1	,	ssis H (50)	ANA1733	
1	 Front Spa 	cer	AMR3369	
1:	2 Sub Fram	e L Assy (50P)	ANG2638	
1	3 Sub Fram	e R Assy (50P)	ANG2561	
1-	4 Edging Sa	addle	AEC1745	
1:	5 Front Cha	ssis VL Assy (50)	ANA1765	
1	6 Front Cha	ssis VR Assy (50)	ANA1766	
1		(00)	AMZ30P060FZK	
1			APZ30P080FZK	
	9 Screw		AMZ30P080FMC	
2	0 Screw		ABZ30P060FMC	
2	1 Flat Clam	р	AEC1884	
2	2 Flexible C	able (J211)	ADD1225	
2	3 Flat Clam	р	AEC1879	
2	4 Gasket		ANK1725	
2	5 Spacer		AEB1397	

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2.5 MULTI BASE SECTION

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MULTI BASE SECTION Parts List

Mark No.		<u>Description</u>	Part No.
	1	PANEL IF Assy	AWZ6786
	2	HD AUDIO AMP Assy	AWZ6834
	3	HD SP TERMINAL Assy	AWZ6792
<u> </u>	4	AC Inlet	AKP1244
	5	Toroidal Core	ATX1042
	6	Wire C (J104)	ADX2879
	7	Under Cover Assy	ANG2589
	8	Nyron Binder	AEC-093
	9	13P Housing Wire (J105)	ADX2843
	10	Multi Base Assy (P)	ANA1718
	11	Locking Card Spacer	AEC1940
	12	Edge Saddle	AEC1946
	13	Clamp	AEC1884
	14	PCB Spacer	AEC1941
	15	Niplocker	BEC1136
	16	Screw	APZ30P080FZK
	17	Screw	AMZ30P060FZK
	18	Screw	PMB30P060FNI
	19	Screw	ABA1294
	20	Hexagon Head Screw	BBA1051
	21	Screw	PMZ26P060FZK

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REAR SECTION Parts List

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<u>lo.</u>	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	Rear Case (504P)	ANE1614	7	Screw	PMB50P120FZK
2	Grip	AMR3380	8	Screw	AMZ30P060FZK
3	Name Label	See Contrast table (2)	9	Screw	ABZ30P100FZK
4	Caution Label	See Contrast table (2)			
5	Terminal Label	See Contrast table (2)			
6	Disply Label	AAX2836			
	1 2 3 4 5	1 Rear Case (504P) 2 Grip 3 Name Label 4 Caution Label 5 Terminal Label	1 Rear Case (504P) 2 Grip 3 Name Label 4 Caution Label 5 Terminal Label ANE1614 See Contrast table (2) See Contrast table (2) See Contrast table (2)	1 Rear Case (504P) ANE1614 7 2 Grip AMR3380 8 3 Name Label See Contrast table (2) 9 4 Caution Label See Contrast table (2) 5 Terminal Label See Contrast table (2)	1 Rear Case (504P) ANE1614 7 Screw 2 Grip AMR3380 8 Screw 3 Name Label See Contrast table (2) 9 Screw 4 Caution Label See Contrast table (2) 5 Terminal Label See Contrast table (2)

(2) CONTRAST TABLE

PDP-504PU/ TUCK, PDP-504PE/ WYVI6, PDP-504PE/ WYVI6XK and PRO-504PU/ KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	PDP-504PU TUCK	PDP-504PE WYVI6	PDP-504PE WYVI6XK	PRO-504PU KUC	
NSP	3	Name Label	AAL2469	AAL2488	AAL2481	AAL2500	
	4	Caution Label	AAX3007	AAX3007	AAX3005	AAX3007	
	5	Terminal Label	AAX2997	AAX2998	AAX3006	AAX2997	

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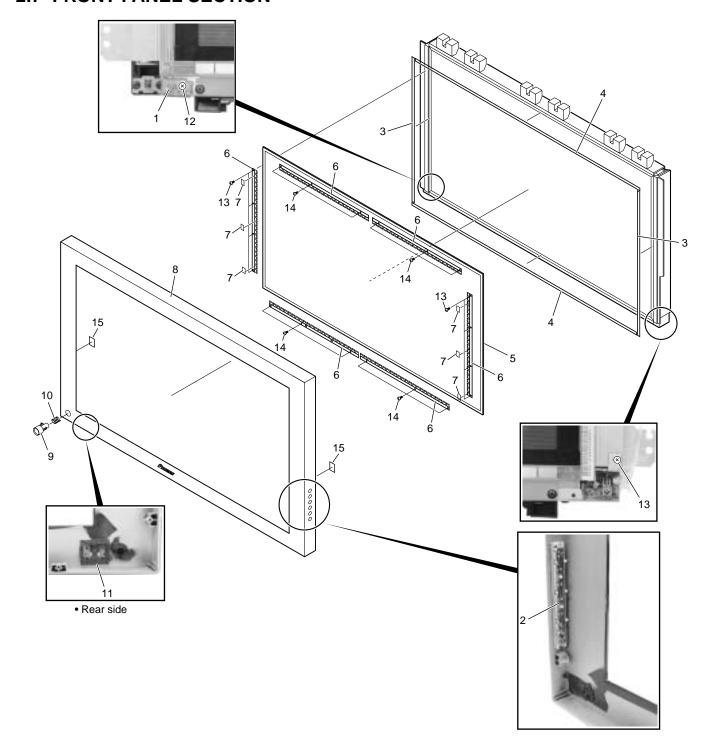
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2.7 FRONT PANEL SECTION

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FRONT PANEL SECTION Parts List

Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
1	PANEL LED Assy	AWZ6787	9	Power Button	See Contrast table (2)
2	PANEL KEY Assy	AWZ6788	10	Coil Spring	ABH1114
3	Panel Cushion V	AED1199	11	Blind Cushion	AEB1383
4	Panel Cushion H	AED1226	12	Screw	BBZ30P050FMC
5	Protect Panel Assy (50)	See Contrast table (2)	13	Screw	ABZ30P060FMC
NSP 6	Panel Holder (50)	ANG2563	14	Serial Sheet	AAX2609
7	Cushion	AEB1393	15	Case Spacer S	AEC1984
8	Front Case Assy	See Contrast table (2)			

(2) CONTRAST TABLE

 $\dot{\text{PDP-504PU}}$ TUCK, PDP-504PE/ WYVI6, PDP-504PE/ WYVI6XK and PRO-504PU/ KUC are constructed the same except for the following :

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	Mark	rk No. Symbol and Description		PDP-504PU TUCK	PDP-504PE WYVI6	PDP-504PE WYVI6XK	PRO-504PU KUC
Ī		5	Protect Panel Assy (50)	AMR3385	AMR3348	AMR3348	AMR3348
		8	Front Case Assy	AMB2763	AMB2763	AMB2763	AMB2804
		9	Power Button	AAD4123	AAD4123	AAD4123	AAD4126

2.8 PANEL CHASSIS (50) Assy (AWU1081)

PANEL CHASSIS (50) Assy (AWU1081) Parts List

Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
NSP	1P. Chassis (50) Assy	AWU1081		2PCB Spacer	AEC1944
NSP	250 ADDRESS Assy	AWV2069		2PCB Support	AEC1958
NSP	350 ADDRESS Assy	AWZ6839		2Rivet (Plastic)	AMR1066
				2FC Spacer	AMR3370
NSP	250 SCAN FUKUGO Assy	AWV2036		2Adhesive	ZBA-KE3424G
NSP	350 SCAN A Assy	AWZ6809	NSP	2Lotion	ZLX-AP7
NSP	350 SCAN B Assy	AWZ6810	NSP	2Tape	ZTA-8101-12
NSP	3X CONNECTOR A Assy	AWZ6811	NSP	2Double Faced Tape	ZTB-5015-18
NSP	3X CONNECTOR B Assy	AWZ6812	NSP	2Tape	ZTC-POLYCA-11
			NSP	2Tape	ZTC-POLYCA-20
NSP	2Address Module (IC1-IC40)	AXF1116	NSP	2Tape	ZTC-900UL-15
NSP	2Plasma Panel Assy(50")(V1))AAV1244	NSP	2Silicone Rubber	ZTX-HC20-15
NSP	2FPC (50XGA-X)	ADY1084	NSP	2Wiping Cloth	ZTX-MX100-13
NSP	2FPC (50XGA-Y)	ADY1085	NSP	2Film	ZTX-2102Y35-2R5
NSP	2Chassis Assy (50)	ANA1774	NSP	2Film	ZTX-2102Y45-5

2.9 PDP SERVICE Assy (AWU1080)

PDP SERVICE Assy (AWU1080) Parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
NSP	1P. Chassis (50) Assy	AWU1081		2Front Spacer	AMR3369
NSP	2Front Chassis H (50)	ANA1733		2Caution Label	AAX3031
	2Front Chassis VL (50)	ANA1765	NSP	2Drive Voltage Label	ARW1097
	2Front Chassis VR (50)	ANA1766		2Front Case (504 Service)	AMB2811 (Note)
	2Sub Frame L Assy	ANG2559		2Rear Case (50P)	ANE1614 (Note)
	2Sub Frame R Assy	ANG2561		ront case (504 Service) and rea	, ,
	2Wire Saddle	AEC1745		e Service Assy are for transpor IOT use them as parts of the ur	,
	2Clamp	AEC1884	DOT	2Screw	AMZ30P060FZK
	2PCB Support	AEC1938		2Screw	AMZ30P080FMC
	2PCB Spacer	AEC1941		2Screw	AMZ30P080FZK
	2PCB Spacer	AEC1947		2Screw	PMB30P060FNI
	2Wire Clip	AEC1948		2Screw	VBB30P080FNI
	2Spacer	AEB1397		2Screw	ABZ30P100FZK
	2Panel Cushion H (50)	AED1226		2001044	7.D2001 1001 210
	2Panel Cushion V (50)	AED1199			

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

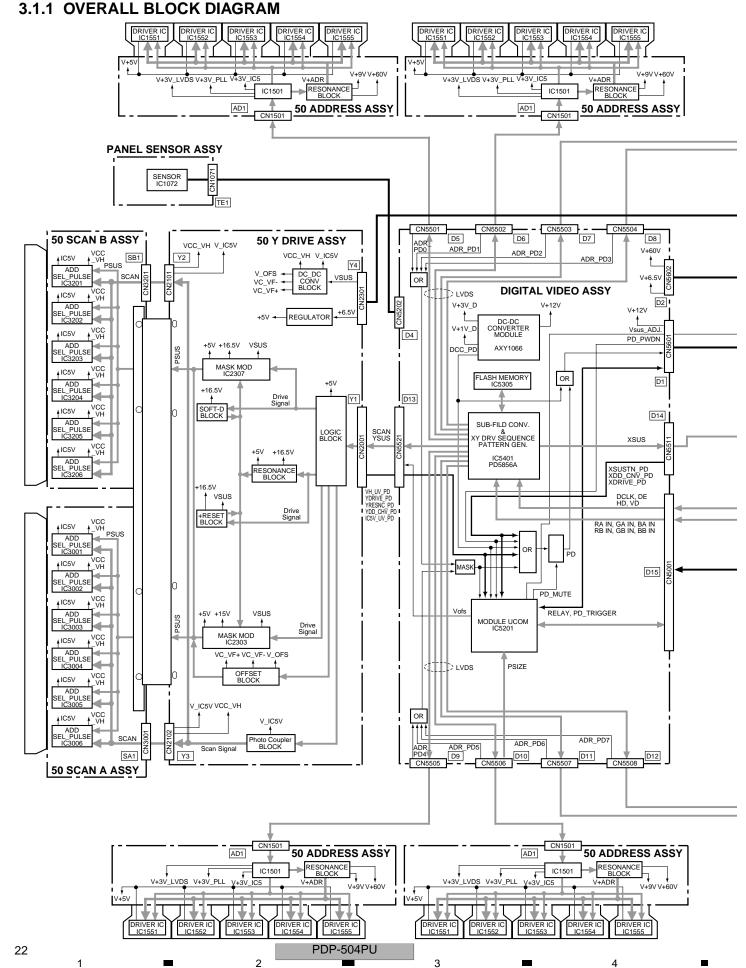
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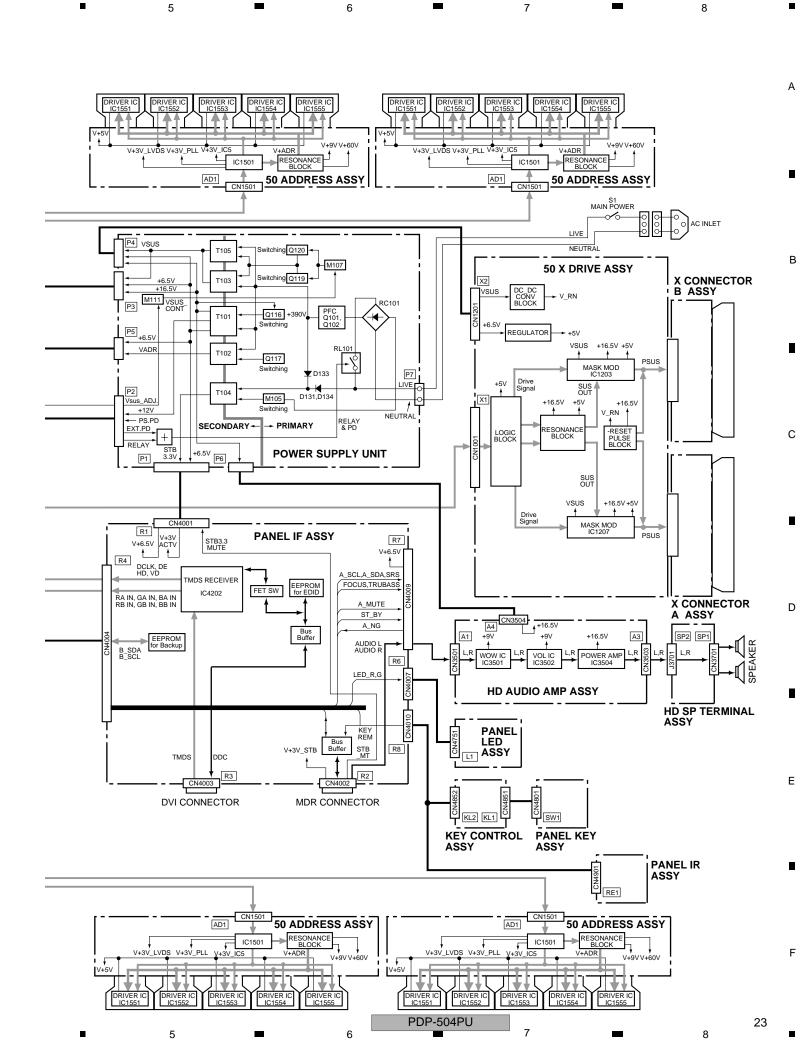
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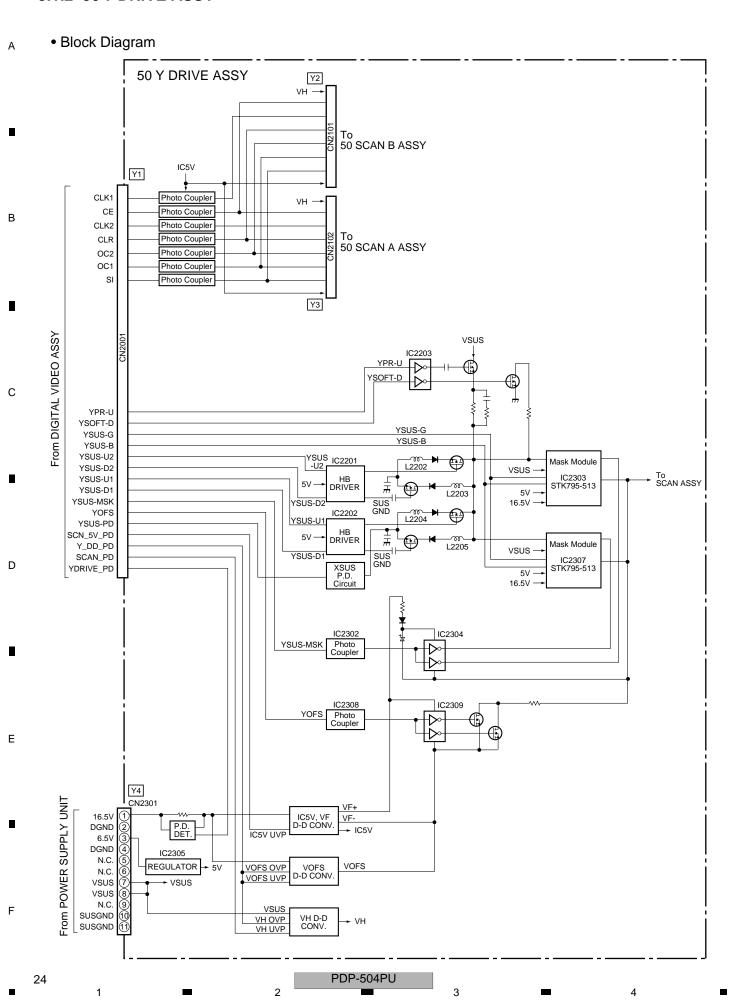
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3.1.2 50 Y DRIVE ASSY



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• Block Diagram

50 X DRIVE ASSY X1 XSUS-G XSUS-B XSUS-G XSUS-B From DIGITAL VIDEO ASSY To X CONNECTOR ASSY XSUS-U2 XSUS IC1101 -U2 _____M L1102 Mask Module XSUS-D2 VSUS SUS H PSUS XSUS-U1 HB DRIVER IC1203 STK795-512 5V XSUS-D1 XSUS-MSK 1 _____ L1103 XSUS-D2 16.5V XCP-MSK IC1102 _____ L1104 XSUS-U1 XNR-D SUS |-HB DRIVER XSUS_PD _____ L1105 Mask Module XDD_PD VSUS XSUS-D1 XDRV_PD IC1207 STK795-512 XSUS P.D. Circuit 16.5V XCP-MSK Charge Pump Circuit VCP IC1202 XSUS-MSK Photo Coupler XNR P.D. DET. X2 CN1201 From POWER SUPPLY UNIT 16.5V DGND IC1204 P.D. DET. XNR-D 6.5V DGND IC1205 N.C. REGULATOR N.C. VSUS VSUS - VSUS VSUS N.C. VRN OVP P.D. SUSGND VRN-230V D-D CONV. SUSGND N.C. VRN UVP P.D.

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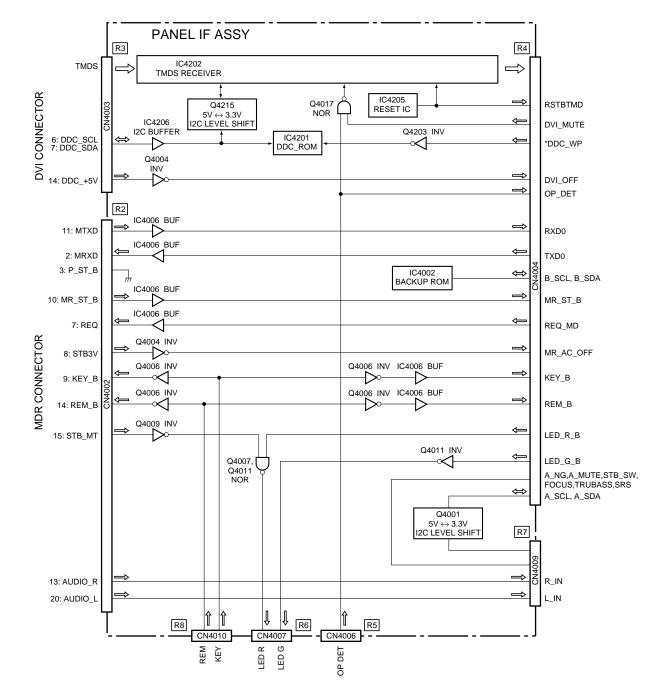
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PDP-504PU

Voltages

CN4001 (R1) < ⇔ POWER SUPPLY UNIT >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	6.5V	ı	+6.5V power supply	+6.8VDC
2	6.5V	ı	+6.5V power supply	+6.8VDC
3	Vcc_GND	_	GND	
4	Vcc_GND	_	GND	
5	STB3.3V	ı	Power supply +3.3V input of module UCOM at panel side	+3.3VDC
6	STB_GND	_	GND	
7	STB3.3MUTE	0	Standby control (+3.3V mute)	+6.7VDC
8	AC_DET	ı	Primary power supply (AC) state input at panel side	+3.0VDC

CN4002 (R2) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	MR_ST_B	ı	Connection state detecting signal with MDR	0VDC
2	MRXD	0	UART communication transmission data with the main UCOM (external PC) at MDR side	0-3.3V amplitude square wave
3	P_ST_B	0	Connection state output for the MDR	0VDC
4	ACT3V	0	Power supply +3.3V output of module UCOM at panel side	+3.3VDC
5	AC_OFF	0	Primary power supply (AC) state output at panel side	0VDC
6	GND	_	GND	
7	REQ	0	Communication request to the main UCOM (external PC) at the MDR	0-3.3V amplitude square wave
8	STB3V	ı	Standby power supply (+3.3V) input from the MDR	+3.3VDC
9	KEY_B	0	Function key code signal output at panel side	0-3.3V amplitude square wave (at key operation)
10	MR_ST_B'	ı	Connection state detecting signal with the MDR	0VDC
11	MTXD	ı	UART communication receive data with the main UCOM (external PC) at the MDR side	0-3.3V amplitude square wave
12	GND	_	GND	
13	AUDIO_R	l	R ch audio signal input	Audio R signal
14	REM_B	0	Remote control code signal output	0-3.3V amplitude square wave (at remocon code transmission)
15	STB_MT	ı	Standby control input	0VDC
16	GND	_	GND	
17	NC	_	Not connected	_
18	FIELD	I	FIELD control signal	0VDC
19	GND		GND	
20	AUDIO_L	ı	L ch audio signal input	Audio L signal

CN4003 (R3) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	RX2-	ı	DVI signal	DVI differential signal (-)
2	RX2+	ı	DVI signal	DVI differential signal (+)
3	GND	_	GND	
4	N.C	-	Not connected	_
5	N.C	ı	Not connected	_
6	DDC_SCL	ı	I2C signal for DDC	0-5V amplitude square wave
7	DDC_SDA	ı	I2C signal for DDC	0-5V amplitude square wave
8	N.C	_	Not connected	_
9	RX1-	- 1	DVI signal	DVI differential signal (-)
10	RX1+	ı	DVI signal	DVI differential signal (+)
11	GND	_	GND	
12	N.C	_	Not connected	_
13	N.C	_	Not connected	_
14	DDC_+5V		I2C power supply for DDC	+5VDC
15	GND	_	GND	
16	HPD	0	Hot plug detection	+5VDC
17	RX0-	I	DVI signal	DVI differential signal (-)
18	RX0+	I	DVI signal	DVI differential signal (+)
19	GND	_	GND	
20	N.C	_	Not connected	_
21	N.C	_	Not connected	_

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CN4003 (R3) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
22	GND	_	GND	
23	RXC+	- 1	DVI signal	DVI differential signal (-)
24	RXC-	- 1	DVI signal	DVI differential signal (+)

CN4006 (R5) < ⇔ TRAP SW >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	OP_DET	ı	Rear panel open detecting signal	0VDC
2	N.C	-	Not connected	_
3	GND	_	GND	

CN4007 (R6) $< \Leftrightarrow$ PANEL LED ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	LED_G	0	LED control (green)	+2.1VDC
2	LED_R	0	LED control (red)	0VDC
3	AC_OFF	0	Primary power supply (AC) state output at the panel side	0VDC

CN4009 (R7) $< \Leftrightarrow$ HD AUDIO AMP ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	A_NG	ı	Abnormal detecting signal of the audio block	+3.3V DC
2	V+6.5	0	+6.5V power supply	+6.8V DC
3	GNDA	_	GND	
4	L_IN	0	L ch audio signal	Audio L signal
5	GNDA	_	GND	
6	R_IN	0	R ch audio signal	Audio R signal
7	ST_BY	0	Standby signal of the audio block	+3.3V DC
8	A_MUTE	0	Audio mute signal input	0V DC
9	SCL	0	I2C control signal for audio	0-3.3V amplitude square wave
10	SDA	0	I2C control signal for audio	0-3.3V amplitude square wave
11	FOCUS	0	Focus function control signal	+3.3V DC
12	SRS	0	SRS function control signal	+3.3V DC
13	TRUBASS	0	TRUBASS function control signal	+3.3V DC

CN4010 (R8) $<\Leftrightarrow$ PANEL IR ASSY, KEY CONTROL ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	STB3V	0	+3.3V power supply	+3.3V DC
2	STBGND	_	GND	
3	REM	I	Remote control code signal input	0-3.3V amplitude square wave (at remocon code transmission)
4	STB+3V	0	+3.3V power supply	+3.3V DC
5	KEY	I	Function key code signal input at the panel side	0-3.3V amplitude square wave (at key operation)
6	STBGND	_	GND	

CN4801 (SW1) < ⇔ KEY CONTROL ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	STBGND	_	GND	0V DC
2	G1	0	Key scan signal	0V DC
3	G0	0	Key scan signal	0V DC
4	D5	- 1	Key scan signal	+3.3V DC
5	D6	ı	Key scan signal	+3.3V DC
6	D7	ı	Key scan signal	+3.3V DC

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CN4004 (R4) $< \Leftrightarrow$ DIGITAL VIDEO ASSY > (1/2)

1 G 2 G 3 4	Signal Name GND GND	I/O _	Signal Description GND	Voltages at NTSC Signal Input
2 G 3 4		_		
3 4			GND	
4	SIND	_	Not connected	
			Not connected	
5 B	BA0	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA1		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA2		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA3		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA4		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA5		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA6		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA7		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
	GND	_	GND	o o.ov ampiitade square wave
-	GND	_	GND	
15			Not connected	_
16			Not connected	_
-	GA0	0	8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
-	GA1		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
-	GA2		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
	GA3		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
	GA4		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
-	GA5		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
-	GA6		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
-	GA7		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
-	GND		GND	o olo t ampinudo oqualo mato
-	GND	_	GND	
27			Not connected	_
28			Not connected	_
-	RA0	0	8bit video signal output (RED even number)	0-3.3V amplitude square wave
-	RA1		8bit video signal output (RED even number)	0-3.3V amplitude square wave
31 R	RA2		8bit video signal output (RED even number)	0-3.3V amplitude square wave
32 R	RA3		8bit video signal output (RED even number)	0-3.3V amplitude square wave
33 R	RA4		8bit video signal output (RED even number)	0-3.3V amplitude square wave
34 R	RA5		8bit video signal output (RED even number)	0-3.3V amplitude square wave
35 R	RA6	0	8bit video signal output (RED even number)	0-3.3V amplitude square wave
36 R	RA7	0	8bit video signal output (RED even number)	0-3.3V amplitude square wave
37 G	GND	_	GND	
38 D	OCLK	0	Synchronous signal output (clock)	0-3.3V amplitude square wave (42.5MHz)
39 G	GND	_	GND	
40 D	DEI	0	Synchronous signal output (data enable)	0-3.3V amplitude square wave (positive polarity)
41 H	HDI	0	Synchronous signal output (Horizontal sync.)	0-3.3V amplitude square wave (negative polarity)
42 V	/DI	0	Synchronous signal output (Vertical sync.)	0-3.3V amplitude square wave (negative polarity)
43 F	FIELD	0	FIELD control signal	0V DC
44 A	APL_DT		Not connected	_
45			Not connected	_
46			Not connected	_
47 B	3B0	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
48 B	3B1	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
49 B	3B2	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
50 B	3B3	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
-	3B4	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
52 B	3B5	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
53 B	3B6	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
54 B	3B7	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
55 G	GND	-	GND	
56 G	GND	_	GND	
57			Not connected	_
58			Not connected	_

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• Voltages

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CN4004 (R4) < ⇔ DIGITAL VIDEO ASSY > (2/2)

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No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
59	GB0	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
60	GB1	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
61	GB2	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
62	GB3	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
63	GB4	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
64	GB5	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
	GB6	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
	GB7	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
67	GND	_	GND	
68	GND	_	GND	
69			Not connected	_
70			Not connected	_
	RB0	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB1	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB2	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB3	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB4	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB5	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB6	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB7	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	GND		GND	e elev amplicade equale wave
	MASK		Not connected	_
	MODE		Not connected	_
	MODEL		Not connected	_
	DITHER		Not connected	_
	V+3VACTV	0	Power supply +3.3V output of module UCOM at panel side	+3.3VDC
	B_SDA	<u> </u>	E2PROM control signal for backup	0-3.3V amplitude square wave
	RXD0	0		0-3.3V amplitude square wave
	REM_B	0	Remote control code signal output	0-3.3V amplitude square wave (at remocor code transmission)
88	TXD0	ı	UART communication transmission data with the main UCOM (external PC) at MDR side	0-3.3V amplitude square wave
	KEY_B	0	Function key code signal output at panel side	0-3.3V amplitude square wave (at key operation)
90	REQ_MD	ı	Communication request to the main UCOM (external PC) at MDR side	0-3.3V amplitude square wave
91	LED_R_B	ı	LED control (red)	+3.3VDC
	MR_AC_OFF	0	AC state output at MR side	0VDC
	LED_G_B	ı	LED control (green)	0VDC
94	POWER		Not connected	_
95	DVI_MUTE	ı	DVI mute signal input	OVDC
	MR_ST_B	0	Connection state detecting signal with MDR	0VDC
	A_MUTE	ı	Audio mute signal input	0VDC
	OP_DET	0	Rear case open detecting signal	0VDC
	A_NG	0	Abnormal detecting signal of audio block	+3.3VDC
	PNL_MUTE		Not connected	_
	A_SCL	1	I2C control signal for audio	0-3.3V amplitude square wave
	STB_SW	ī	Standby signal of audio block	+3.3VDC
	A_SDA	ī	I2C control signal for audio	0-3.3V amplitude square wave
	DDC_WP	ī	EDID E2PROM writing inhibit signal	0VDC
	TRUBASS	÷	TRUBASS function control signal	+3.3VDC
	B_SCL	i	E2PROM control signal for backup	0-3.3V amplitude square wave
	FOCUS	÷	FOCUS function control signal	+3.3VDC
	DVI_OFF	0	Connection detecting signal of DVI connector	0VDC
	SRS	ı	SRS function control signal	+3.3VDC
	RSTBTMD	0	TMDS IC reset signal	+3.3VDC
			Not connected	
110	MAX PIS1			
110 111	MAX_PLS1	-		+3 3VDC
110 111 112	MAX_PLS1 L_SYNC MAX_PLS2	0	TMDS IC synchronous detecting signal Not connected	+3.3VDC

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3.1.5 DIGITAL VIDEO ASSY

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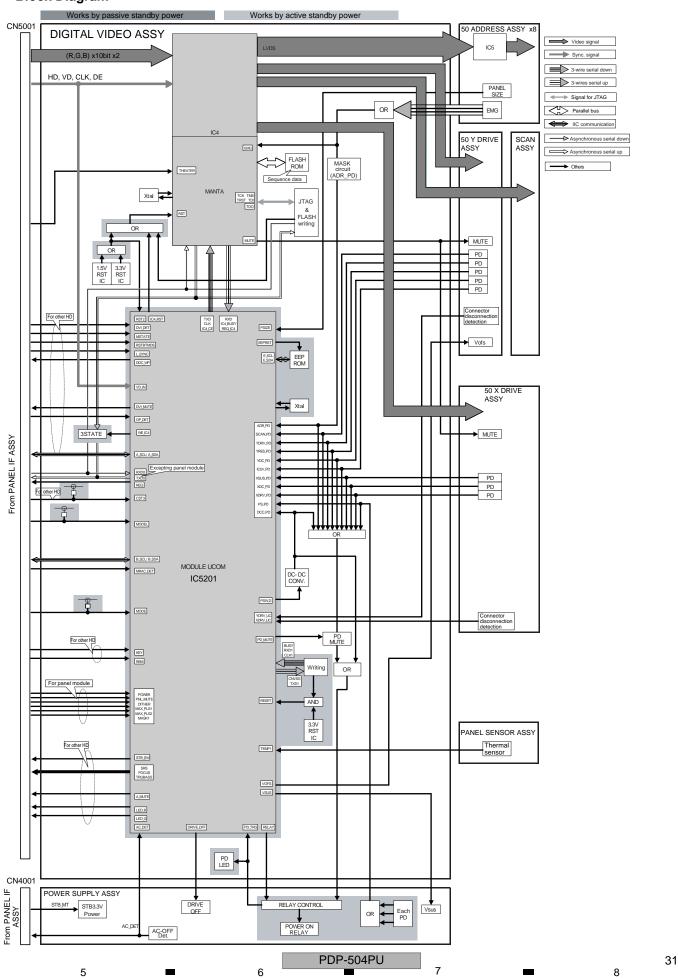
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• Block Diagram



• Voltages

CN5601 (D1)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	+12V	ı	+12V power input	+12VDC
2	+12V	I	+12V power input	+12VDC
3	GND_D	_	GND	
4	GND_D	_	GND	
5	PD	0	Power down signal	0VDC
6	VSUS_ADJ	0	VSUS adjustment signal	
7	PS_PD	I	Power-down detecting signal of POWER SUPPLY block	0VDC
8	RELAY	0	Relay control signal	+3.3VDC
9	DRF	0	Drive control signal	0VDC
10	AC_DET	I	Primary side power (AC) state output at panel side	+3.0VDC
11	PD_TRIGGER	ı	Power down trigger	+3.3VDC

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CN5602 (D2)

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No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	VADR	ı	Address drive power (+61V) input	+61VDC
2	VADR	ı	Address drive power (+61V) input	+61VDC
3	N.C		Not connected	
4	GND_ADR	_	GND	
5	GND_ADR	_	GND	
6	+6.5V	ı	+6.5V power input	+6.8VDC
7	GND_D	_	GND	

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PDP-504PU

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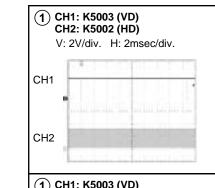
A DIGITAL VIDEO ASSY

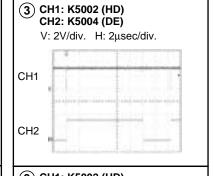
В

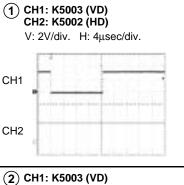
С

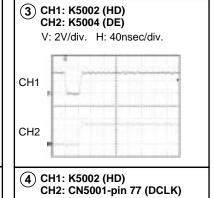
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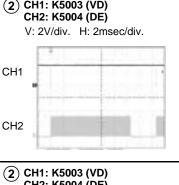
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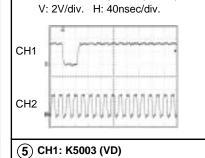


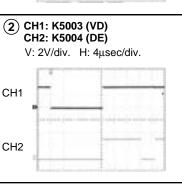


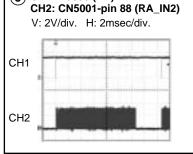








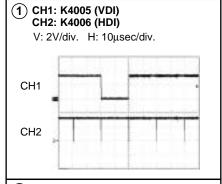


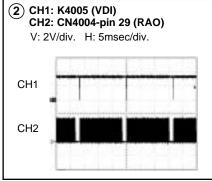


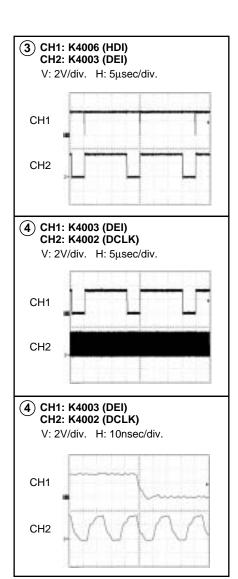
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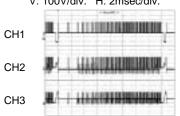
50 X DRIVE ASSY, 50 Y DRIVE ASSY and 50 SCAN A ASSY

Drive Output Waveform (1 field,color-bar) CH1: R1226 (XPSUS) - K1201 (SUSGND)

(50 X DRIVE AŚSY) CH2: R2348 (YPSUS) - K2301 (SUSGND) (50 Y DRIVE ASSY)

CH3: K3001 (Scan OUT) - K2301 (SUSGND) (50 SCÀN A ASSÝ)

V: 100V/div. H: 2msec/div.



Reset Pulse

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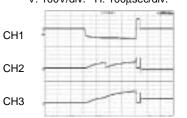
CH1: R1226 (XPSUS) - K1201 (SUSGND) (50 X DRIVE ASSY) CH2: R2348 (YPSUS) - K2301 (SUSGND)

(50 Y DRIVE ASSY)

CH3: K3001 (Scan OUT) - K2301 (SUSGND)

(50 SCÀN A ASSÝ)

V: 100V/div. H: 100µsec/div.



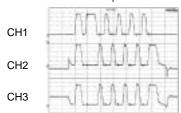
Sustain Pulse (1 sub-sub-field)

CH1: R1226 (XPSUS) - K1201 (SUSGND)

(50 X DRIVE ASSY)
(H2: R2348 (YPSUS) - K2301 (SUSGND)
(50 Y DRIVE ASSY)

CH3: K3001 (Scan OUT) - K2301 (SUSGND) (50 SCAN A ASSY)

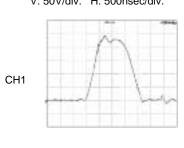
V: 50V/div. H: 5µsec/div.



Sustain Waveform

CH1: R2348 (YPSUS) - K2301 (SUSGND) (50 Y DRIVE ASSY)

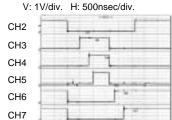
V: 50V/div. H: 500nsec/div.



Control Signal (Sustain Waveform Gen.)

CH2: K2016 (YSUS-G) - K2010 (DGND) CH3: K2025 (YSUS-U1) - K2010 (DGND) CH4: K2022 (YSUS-U2) - K2010 (DGND) CH5: K2026 (YSUS-B) - K2010 (DGND) CH6: K2024 (YSUS-D2) - K2010 (DGND) CH7: K2027 (YSUS-D1) - K2010 (DGND)

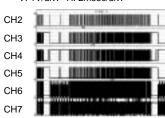
(50 Y DRIVE ASSY)



Scan Control Signal (1 field, color-bar)

CH2: K2006 (SI) - K2029 (DGND)
CH3: K2009 (OC1) - K2029 (DGND)
CH4: K2004 (OC2) - K2029 (DGND)
CH5: K2007 (CLR) - K2029 (DGND)
CH6: K2003 (CLK2) - K2029 (DGND)
CH7: K2008 (LE) - K2029 (DGND)
(50 Y DRIVE ASSY)

V: 1V/div. H: 2msec/div.



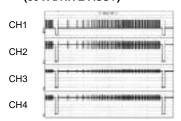
X Drive Pulse Control Signal (color-bar)

CH1: R1226 (XPSUS) - K2301 (SUSGND)

V: 100V/div. H: 2msec/div.

CH2: K1016 (XCP-MSK) - K1020 (DGND)
CH3: K1015 (XSUS-MSK) - K1020 (DGND)
CH4: K1014 (XNR-D) - K1020 (DGND)

(50 X DRIVE ASSY)



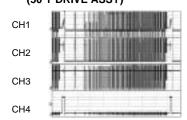
Y Drive Pulse Control Signal (color-bar)

CH1: R2348 (YPSUS) - K2301 (SUSGND) V: 50V/div. H: 2msec/div.

CH2: K2015 (YSUS-MSK) - K2010 (DGND) CH3: K2017 (YSOFT-D) - K2010 (DGND) CH4: K2023 (YPR-U) - K2010 (DGND)

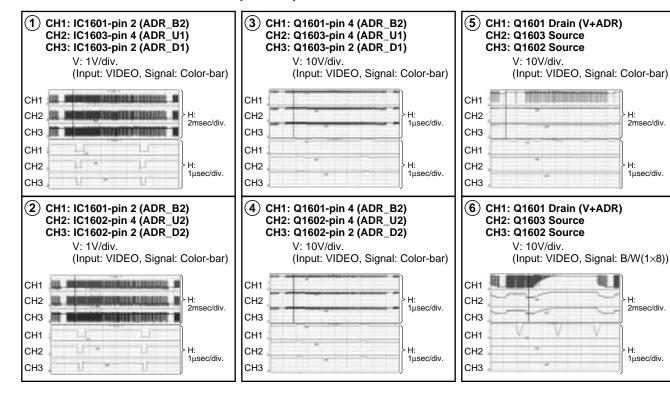
V: 1V/div. H: 2msec/div.

(50 Y DRIVE ASSY)



50 ADDRESS ASSY • ADR RESONANCE BLOCK (VIDEO)

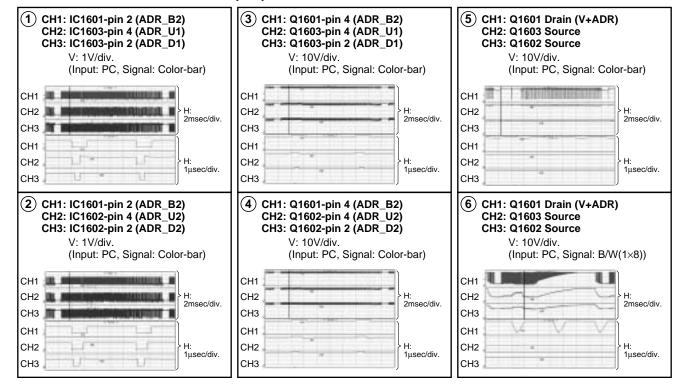
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50 ADDRESS ASSY • ADR RESONANCE BLOCK (PC)

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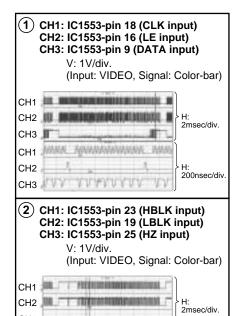
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50 ADDRESS ASSYADR LOGIC BLOCK



H: 50μsec/div.

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CH3 CH1 CH2

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NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

ullet The lacktriangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

*Ex.*2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{-1} \rightarrow 5621 \dots RN1/4PC \boxed{5621}F$

Mark LIST	No. Description Γ OF ASSEMBLIES	Part No.	Mark No. Description 50 ADDRESS ASSY [ADR LOGIC BLOCK]	Part No.	В
NSP NSP	150 ADDRESS ASSY 250 ADDRESS ASSY	AWV2069 AWZ6839	SEMICONDUCTORS IC1501	PEE001B	
NSP	150 SCAN FUKUGO ASSY 250 SCAN A ASSY	AWV2036 AWZ6809	COILS AND FILTERS F1501-F1503	ATF1194	
NSP NSP	250 SCAN B ASSY 2X CONNECTOR A ASSY	AWZ6810 AWZ6811		All 1194	
NSP	2X CONNECTOR B ASSY	AWZ6812	<u>CAPACITORS</u> C1553,C1556,C1559,C1560,C1563	ACG1105	
NSP	1HD FUKUGO ASSY	AWV2017	(330p/100V) C1501,C1502 (47/6.3V)	ACH1357	С
	2PANEL IF ASSY 2PANEL LED ASSY	AWZ6786 AWZ6787	C1503-C1507,C1152,C1555	CKSSYF104Z16	
	2PANEL KEY ASSY	AWZ6788	C1558,C1561,C1564	CKSSYF104Z16	
	2KEY CONTROL ASSY	AWZ6789			
	2PANEL IR ASSY	AWZ6790	<u>RESISTORS</u>		
	1DIGITAL VIDEO ASSY	AWV2070	R1510,R1519,R1522,R1526 R1505-R1509 R1513-R1518	RAB4C470J RS1/16SS1000F RS1/16SS470J	
NSP	1HD AUDIO ASSY	AWV2019	Other Resistors	RS1/16S###J	
	2HD SP TERMINAL ASSY	AWZ6792			
	2HD AUDIO AMP ASSY	AWZ6834	OTHERS CN1501 40P FFC CONNECTOR	AKM1215	
NSP	150 X DRIVE ASSY	AWV2034			D
	250 X DRIVE ASSY 2PANEL SENSOR ASSY	AWZ6808 AWZ6795			
	150 Y DRIVE ASSY	AWV20793	[ADR RESONANCE BLOCK] SEMICONDUCTORS		
			IC1601-IC1603	TND304S	
<u> </u>	1POWER SUPPLY UNIT	AXY1068	Q1604	2SA1163	
			Q1601	HAT1081R	_
			Q1602,Q1603	HAT3019R	
			D1601	1SS302	
			D1608,D1609,D1617,D1618 D1610,D1611,D1616,D1619,D1620	EC10UA20 EC11FS2	
			D1604.D1612	MA126	E
			D1602,D1606,D1607,D1614,D1615	UDZS15B	
			D1621,D1622	UDZS24B	
			COILS AND FILTERS		
			L1601,L1602	ATH1135	
			<u>CAPACITORS</u>		
			C1609,C1615 (0.47/100V)	ACE1171	
			C1605,C1607,C1608,C1613,C1614 (0.01/100V)	ACG1101	
			C1601,C1602 (56/80V)	ACH1405	
			C1618 (47/6.3V)	ACH1357	F
			C1603 (47/16V) C1604,C1606,C1612	ACH1391 CKSSYF104Z16	

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Mark No. Description	Part No	Mark No. Description	Part No
Mark No. Description	Part No.	Mark No. Description	Part No.
RESISTORS		C3261	CCSRCH181J
R1631 (10,1/2W)	ACN1174	C3205,C3210,C3216,C3221	CCSRCH331J
R1632	RS1/16S1502F	C3230,C3231,C3241,C3242,C3248	CCSRCH331J
R1633	RS1/16S1202F	C3254,C3260,C3265	CCSRCH331J
Other Resistors	RS1/16S###J	C3208,C3209,C3219,C3220,C3227	CCSRCH390J
Other registors	1.01/100###0	C3229,C3238,C3240,C3252,C3253	CCSRCH390J
EO CCAN A ACCV		C3263,C3264 C3202,C3213,C3224,C3235,C3246	CCSRCH390J
50 SCAN A ASSY		C3257	CKSRYB105K6
SEMICONDUCTORS		0020.	0.10.11.2.100.11
IC3001-IC3006	AN16003A-K	RESISTORS	
D3001	KU10N16		DAD40004 I
		R3202,R3210,R3216,R3224,R3229	RAB4C221J
CAPACITORS		R3235	RAB4C221J
C3001,C3002,C3012,C3013	ACG1088	Other Resistors	RS1/16S###J
	ACG 1000		
(0.1/250V)		<u>OTHERS</u>	
C3023,C3024,C3034,C3035	ACG1088	CN3201 15P CONNECTOR	AKP1218
(0.1/250V)	10010	K3203,K3208,K3214,K3216,K3218	AKX9002
C3045,C3046,C3056,C3057	ACG1088	TEST PIN	
(0.1/250V)		K3220,K3221 TEST PIN	AKX9002
		NOZZO,NOZZI TZOTTIN	711010002
C3005,C3008,C3016,C3019,C3026	CCSRCH101J50		
C3029,C3037,C3040,C3048,C3051	CCSRCH101J50		
C3060,C3063	CCSRCH101J50	V CONNECTOR A AC	\O\/
C3004	CCSRCH151J50	X CONNECTOR A AS	5 1
C3007,C3018,C3033,C3044,C3050	CCSRCH181J50	This assembly has no service part.	
, , , , ,			
C3062	CCSRCH181J50		
C3006,C3011,C3017,C3022	CCSRCH331J50		
C3031,C3032,C3042,C3043,C3049	CCSRCH331J50	X CONNECTOR B AS	ecv
C3055,C3061,C3066	CCSRCH331J50		,
· · · · · · · · · · · · · · · · · · ·		This assembly has no service part.	
C3009,C3010,C3020,C3021,C3028	CCSRCH390J50		
C2020 C2020 C2044 C2052 C2054	CCCDCI 1200 IF0		
C3030,C3039,C3041,C3053,C3054	CCSRCH390J50		
C3064,C3065	CCSRCH390J50	PANEL IF ASSY	
C3003,C3014,C3025,C3036,C3047	CKSRYB105K6R3	[PANEL IF BLOCK]	
C3058	CKSRYB105K6R3	-	
		<u>SEMICONDUCTORS</u>	
RESISTORS		IC4002	24LC02B(I)SN
R3003,R3011,R3017,R3025,R3030	RAB4C221J	⚠ IC4003	PQ033EZ01ZF
R3036	RAB4C221J	IC4006	TC74VHC541I
Other Resistors	RS1/16S###J	Q4007	DTA143EUA
		Q4004,Q4008,Q4009,Q4012	DTC143EUA
OTHERS			
CN3001 15P CONNECTOR	AKP1218	Q4014-Q4016	DTC143EUA
K3001,K3004,K3009,K3015,K3017	AKX9002	Q4005,Q4006,Q4010,Q4013,Q4017	RN1901
	ANABUUZ	Q4011	RN2901
TEST PIN K3019,K3021 TEST PIN	AKX9002	Q4001	SM6K2
NOUTH NOUZE TEST PIN	ANAGUUZ		1SS355
		D4006	
			RB751V-40
50 SCAN B ASSY		D4001-D4004,D4007	RB751V-40 UDZS5.1B
50 SCAN B ASSY			RB751V-40 UDZS5.1B
50 SCAN B ASSY SEMICONDUCTORS	ΔΝ16003Δ-K	D4001-D4004,D4007 ⚠ D4005	
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206	AN16003A-K	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS	UDZS5.1B
50 SCAN B ASSY SEMICONDUCTORS	AN16003A-K KU10N16	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002	UDZS5.1B ATF1194
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201		D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS	UDZS5.1B ATF1194
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS	KU10N16	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001	UDZS5.1B ATF1194
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223		D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002	UDZS5.1B ATF1194
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223 (0.1/250V)	KU10N16 ACG1088	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001	UDZS5.1B ATF1194 LCTAW221J32
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223	KU10N16	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001 CAPACITORS	UDZS5.1B ATF1194 LCTAW221J32 CCSRCH100E
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223 (0.1/250V)	KU10N16 ACG1088	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001 CAPACITORS C4005,C4006 C4019	UDZS5.1B ATF1194 LCTAW221J32 CCSRCH100E CCSRCH101J
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223 (0.1/250V) C3233,C3234,C3244,C3245	KU10N16 ACG1088	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001 CAPACITORS C4005,C4006 C4019 C4009,C4020	UDZS5.1B ATF1194 LCTAW221J32 CCSRCH100E CCSRCH101J CCSRCH471J
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223 (0.1/250V) C3233,C3234,C3244,C3245 (0.1/250V)	KU10N16 ACG1088 ACG1088	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001 CAPACITORS C4005,C4006 C4019	UDZS5.1B ATF1194 LCTAW221J32 CCSRCH100E CCSRCH101J
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223 (0.1/250V) C3233,C3234,C3244,C3245 (0.1/250V) C3255,C3256,C3266 (0.1/250V)	ACG1088 ACG1088 ACG1088	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001 CAPACITORS C4005,C4006 C4019 C4009,C4020 C4011,C4018,C4021 C4003,C4015	ATF1194 LCTAW221J32 CCSRCH100E CCSRCH101J CCSRCH471J CEAT101M10 CEAT101M16
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223 (0.1/250V) C3233,C3234,C3244,C3245 (0.1/250V) C3255,C3256,C3266 (0.1/250V) C3203,C3204,C3214,C3215,C3226	ACG1088 ACG1088 ACG1088 ACG1088 CCSRCH101J50	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001 CAPACITORS C4005,C4006 C4019 C4009,C4020 C4011,C4018,C4021 C4003,C4015 C4004,C4010,C4012,C4014	UDZS5.1B ATF1194 LCTAW221J32 CCSRCH100D CCSRCH101J CCSRCH471J CEAT101M10 CEAT101M16 CKSRYB103K
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223 (0.1/250V) C3233,C3234,C3244,C3245 (0.1/250V) C3255,C3256,C3266 (0.1/250V) C3203,C3204,C3214,C3215,C3226 C3228,C3237,C3239,C3247,C3251	ACG1088 ACG1088 ACG1088 ACG1088 CCSRCH101J50 CCSRCH101J50	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001 CAPACITORS C4005,C4006 C4019 C4009,C4020 C4011,C4018,C4021 C4003,C4015 C4004,C4010,C4012,C4014 C4016,C4024,C4041	UDZS5.1B ATF1194 LCTAW221J32 CCSRCH100D CCSRCH101J CCSRCH471J CEAT101M10 CEAT101M16 CKSRYB103K8 CKSSYF104Z
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223 (0.1/250V) C3233,C3234,C3244,C3245 (0.1/250V) C3255,C3256,C3266 (0.1/250V) C3203,C3204,C3214,C3215,C3226 C3228,C3237,C3239,C3247,C3251 C3258,C3259	ACG1088 ACG1088 ACG1088 ACG1088 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001 CAPACITORS C4005,C4006 C4019 C4009,C4020 C4011,C4018,C4021 C4003,C4015 C4004,C4010,C4012,C4014	ATF1194 LCTAW221J32 CCSRCH100D CCSRCH101J CCSRCH471J CEAT101M10
50 SCAN B ASSY SEMICONDUCTORS IC3201-IC3206 D3201 CAPACITORS C3201,C3211,C3212,C3222,C3223 (0.1/250V) C3233,C3234,C3244,C3245 (0.1/250V) C3255,C3256,C3266 (0.1/250V) C3203,C3204,C3214,C3215,C3226 C3228,C3237,C3239,C3247,C3251	ACG1088 ACG1088 ACG1088 ACG1088 CCSRCH101J50 CCSRCH101J50	D4001-D4004,D4007 ⚠ D4005 COILS AND FILTERS F4001,F4002 L4001 CAPACITORS C4005,C4006 C4019 C4009,C4020 C4011,C4018,C4021 C4003,C4015 C4004,C4010,C4012,C4014 C4016,C4024,C4041	UDZS5.1B ATF1194 LCTAW221J32 CCSRCH100D CCSRCH101J CCSRCH471J CEAT101M10 CEAT101M16 CKSRYB103K CKSSYF104Z1

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rk No. Description R4006	Part No. RAB4C101J	Mark No. Description	Part No.	
R4006 Other Resistors	RS1/16S###J	PANEL KEY ASSY		
	101/100###0	SWITCHES AND RELAYS S4801-S4806	VSG1024	
THERS	1101101	0 1 001234000	V 00 1024	
CN4004 114P FFC CONNECTOR	AKM1216	<u>OTHERS</u>		
CN4003 DVI SOCKET (24P) CN4002 SOCKET (20P)	AKP1216 AKP1226	CN4801 6P FFC CONNECTOR	AKM1208	
K4002-K4012 TEST PIN	AKX9002			
CN4006 3P TOP POST	ВЗВ-ЕН			
TMDS RX BLOCK]		KEY CONTROL ASSY	•	
SEMICONDUCTORS		SEMICONDUCTORS		
IC4201	24LC01B	IC4851	PD5719A	
IC4206	BA8274F	D4851-D4853,D4855,D4856	1SS302	
IC4205	PST3628UR	0.4.04.04.05.0		
IC4202	SII169CTG100	<u>CAPACITORS</u>	000000111011==	
Q4203	DTC143EUA	<u>↑</u> C4856-C4858 C4854	CCSRCH101J50 CEAT470M50	
Q4215	SM6K2	C4854 C4853	CKSRYB103K50	
D4203,D4204	1SS355	O-1000	CICICI DIOOROO	
D4202	UDZS6.8B	<u>RESISTORS</u>		
		R4858	RAB4C182J	
OILS AND FILTERS	ATE440.4	Other Resistors	RS1/16S###J	
F4201-F4204 L4201	ATF1194 ATH1132	OTHERS		
L7ZUI	AIIIIIOZ	OTHERS ↑ X4851 CERALOCK	ASS1162	
APACITORS		CN4851 CERALOCK CN4851 6P FFC CONNECTOR	ASS1162 VKN1596	
C4208,C4215,C4218,C4222,C4230	CCSRCH331J50	S. C. S. S. C.	***************************************	
C4262	CCSRCH471J50			
C4207,C4210,C4232,C4233,C4236	CCSRCH820J50			
C4241,C4244,C4258	CCSRCH820J50	PANEL IR ASSY		
C4212,C4239,C4242,C4246	CEAT101M10	<u>SEMICONDUCTORS</u>		
C4202,C4237,C4238	CEAT470M10	Q4901	2SC4116	
C4260	CKSRYB472K50	D4902	1SS302	
C4205,C4206,C4217,C4267	CKSRYF105Z10	D4901	1SS355	
C4203,C4204,C4209,C4211,C4213	CKSSYF104Z16 CKSSYF104Z16	<u>CAPACITORS</u>		
C4234,C4235,C4240,C4243,C4245	UN33171U4210	C4901	CEVW470M6R3	
C4247,C4252,C4256,C4259,C4261	CKSSYF104Z16	C4903	CKSRYB102K50	
C4271	CKSSYF104Z16	C4902	CKSRYB103K50	
-010T0D0		C4904	CKSSYF104Z16	
ESISTORS	DAD40000 !	RESISTORS		
R4241 R4213-R4218.R4245.R4247	RAB4C220J RAB4C470J	Other Resistors	RS1/16S###J	
R4213-R4216,R4245,R4247 R4253-R4255,R4257	RAB4C470J	2 100.000.0		
R4250	RS1/16S3900F	<u>OTHERS</u>		
Other Resistors	RS1/16S###J	U4901 REMOTE RECEIVER UNIT	RPM7240-H4	
THERS	ALCVOOCS			
K4203,K4207 TEST PIN	AKX9002	DIGITAL VIDEO ASSY	,	
		[DIGITAL IF BLOCK]		
		COILS AND FILTERS		
PANEL LED ASSY		F5001,F5002,F5004	ATF1194	
EMICONDUCTORS		1 333 1,1 3002,1 3007	7.11.110-4	
D4751	SML-310MT	<u>RESISTORS</u>		
D4752	SML-311UT	R5101-R5115,R5131	RAB4C470J	
APACITORS		Other Resistors	RS1/16S###J	
C4751-C4753	CCSRCH101J50	OTHERS		
	3 2 2	CN5001 114P FFC CONNECTOR	AKM1216	
THERS		K5002-K5004,K5007 TEST PIN	AKX9002	
	D2D 7D 2.4	CN5002 10P CONNECTOR	B10B-PH-SM3	
CN4751 CONNECTOR 3P	B3B-ZR-3.4	CINDUOZ TOT CONNECTOR	D 100-1 11-0100	

PDP-504PU 7 ■ 8

Mark No. Description Part No.	OTHERS CN5301 PLUG 15-P AK K5301 TEST PIN AK ⚠ X5302 CRYSTAL OSCILLATOR AS ⚠ X5301 CRYSTAL OSCILLATOR AS [IC4 BLOCK] SMICONDUCTORS IC5401 PD D5402 SM COILS AND FILTERS F5401,F5403,F5409,F5410 ATI CAPACITORS C5401,C5413,C5417,C5424 AC (100/6.3V) CK C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 RA R5405 RS Other Resistors RS OTHERS	Part No. KM1232 KX9002 SS1174 SS1176 D5856A ML-310LT ML-310MT CH1396 KSRYB102K8 KSSYF104Z1 AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J KX9002
C5206	CN5301 PLUG 15-P K5301 TEST PIN AK AX5302 CRYSTAL OSCILLATOR AS AX5301 CRYSTAL OSCILLATOR AS [IC4 BLOCK] SEMICONDUCTORS IC5401 D5401 D5402 SM COILS AND FILTERS F5401,F5403,F5409,F5410 ATI CAPACITORS C5401,C5413,C5417,C5424 (100/6.3V) C5434,C5435 C5402-C5412,C5414-C5416 C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 R5408-R5413,R5415,R5416,R5419 R5422 R5405 Other Resistors CTHERS K5401 TEST PIN K5401 TEST PIN AK [ADDRESS CN BLOCK]	XX9002 SS1174 SS1176 D5856A ML-310LT ML-310MT F1194 CH1396 XSRYB102K! XSSYF104Z1 AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
IC5206	K5301 TEST PIN	XX9002 SS1174 SS1176 D5856A ML-310LT ML-310MT F1194 CH1396 XSRYB102K! XSSYF104Z1 AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
IC5206	⚠ X5302 CRYSTAL OSCILLATOR ⚠ X5301 CRYSTAL OSCILLATOR ⚠ X5301 CRYSTAL OSCILLATOR ⚠ X5301 CRYSTAL OSCILLATOR AS [IC4 BLOCK] SEMICONDUCTORS IC5401 PD D5401 SN D5402 SN COILS AND FILTERS F5401,F5403,F5409,F5410 ATI CAPACITORS C5401,C5413,C5417,C5424 AC (100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	SS1174 SS1176 D5856A ML-310LT ML-310MT F1194 CH1396 KSRYB102K! KSSYF104Z1 ASSYF104Z1 AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
IC5201	☐ X5301 CRYSTAL OSCILLATOR ☐ IC4 BLOCK] SEMICONDUCTORS ☐ IC5401 PD ☐ D5401 SM ☐ D5402 SM COILS AND FILTERS ☐ F5401,F5403,F5409,F5410 ATI CAPACITORS ☐ C5401,C5413,C5417,C5424 ACI ☐ (100/6.3V) ☐ C5434,C5435 CK ☐ C5402-C5412,C5414-C5416 CK ☐ C5418-C5423,C5425-C5431 CK RESISTORS ☐ R5406,R5421 RA ☐ R5408-R5413,R5415,R5416,R5419 RA ☐ R5422 R5405 ☐ Other Resistors OTHERS ☐ K5401 TEST PIN AK [ADDRESS CN BLOCK]	D5856A ML-310LT ML-310MT F1194 CH1396 KSRYB102K! KSSYF104Z1 AB4C101J AB4C220J AB4C220J AB4C220J S1/16S5601F S1/16S###J
IC5208	[IC4 BLOCK] SEMICONDUCTORS IC5401 PD D5401 SM D5402 SM COILS AND FILTERS F5401,F5403,F5409,F5410 ATI CAPACITORS C5401,C5413,C5417,C5424 AC (100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 CH CTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	D5856A ML-310LT ML-310MT F1194 CH1396 KSRYB102K! KSSYF104Z1 AB4C101J AB4C220J AB4C220J AB4C220J S1/16S5601F S1/16S###J
IC5213	SEMICONDUCTORS IC5401	ML-310LT ML-310MT F1194 CH1396 KSRYB102K! KSSYF104Z1 AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
IC5214,IC5215	SEMICONDUCTORS IC5401	ML-310LT ML-310MT F1194 CH1396 KSRYB102K KSSYF104Z KSSYF104Z AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
IC5211, IC5212	SEMICONDUCTORS IC5401	ML-310LT ML-310MT F1194 CH1396 KSRYB102K KSSYF104Z KSSYF104Z AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
IC5211, IC5212	IC5401	ML-310LT ML-310MT F1194 CH1396 KSRYB102K KSSYF104Z KSSYF104Z AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
IC5209	D5401 SM D5402 SM COILS AND FILTERS F5401,F5403,F5409,F5410 ATI CAPACITORS C5401,C5413,C5417,C5424 AC (100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 CH OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	ML-310LT ML-310MT F1194 CH1396 KSRYB102K KSSYF104Z KSSYF104Z AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
Q5201 D5207-D5212 D5217,D5218 D5201 SWITCHES AND RELAYS S5201 SS201 ASH1047 CAPACITORS C5213,C5225 (47/6.3V) C5206,C5223,C5231 C5232 C5232 C5230 C5232 C5230 C5205 C5205 C5201-C5204,C5208,C5210-C5212 C5218,C5224,C5226,C5227 C5243,C5244 CKSRYB102K50 C5218,C5224,C5226,C5227 CKSRYB472K50 CFS201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 CKSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSYF104Z16 CKSYF104Z16 CKSYF104Z16 CKSYF104Z16 CKSYF104Z16 CKSSYF104Z16 CKSYF104	COILS AND FILTERS F5401,F5403,F5409,F5410 ATI CAPACITORS C5401,C5413,C5417,C5424 AC (100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 RA C0ther Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	ML-310MT F1194 CH1396 KSRYB102K KSSYF104Z KSSYF104Z AB4C101J AB4C220J AB4C220J AB4C220J S1/16S56011 S1/16S###J
D5207-D5212 D5217,D5218 D5201 SWITCHES AND RELAYS S5201 ASH1047 CAPACITORS C5213,C5225 (47/6.3V) C5206,C5223,C5231 C5245-C5264 C5232 C5230 C5230 C5205 C5201-C5204,C5208,C5210-C5212 C5218,C5224,C5226,C5227 C5243,C5244 CKSRYB102K50 C5205 CKSRYB472K50 CKSRYB472K50 CKSRYB472K50 CKSSYF104Z16 CKSCNAR	COILS AND FILTERS F5401,F5403,F5409,F5410 ATI CAPACITORS C5401,C5413,C5417,C5424 AC (100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 CHERS Other Resistors RS OTHERS K5401 TEST PIN AK	TF1194 CH1396 KSRYB102K KSSYF104Z KSSYF104Z AB4C101J AB4C220J AB4C220J AB4C220J S1/16S56011 S1/16S###J
D5217,D5218 D5201 SWITCHES AND RELAYS S5201 ASH1047 CAPACITORS C5213,C5225 (47/6.3V) C5206,C5223,C5231 CKSRYB102K50 C5245-C5264 CKSRYB102K50 C5232 CKSRYB104K16 C5230 C5205 C5205 C5201-C5204,C5208,C5210-C5212 C5218,C5224,C5226,C5227 C5243,C5244 CKSSYF104Z16 C5243,C5244 RESISTORS R5209,R5211,R5212,R5235 R5209,R5211,R5212,R5235 R5205,R5265,R5266,R5266 R5205 R5205 R5205 R5207,R5271 R5256,R5257 CMBC ASH1047 R5266,R5257 RAB4C474J Other Resistors RS1/16S###J	F5401,F5403,F5409,F5410 CAPACITORS C5401,C5413,C5417,C5424 AC (100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 RA Other Resistors RS OTHERS K5401 TEST PIN IADDRESS CN BLOCK IA	CH1396 KSRYB102K KSSYF104Z AB4C101J AB4C220J AB4C220J AB4C220J S1/16S56011 S1/16S###J
D5201 SML-310LT SWITCHES AND RELAYS \$5201 ASH1047 CAPACITORS \$C5213,C5225 (47/6.3V) ACH1357 \$C5206,C5223,C5231 CKSRYB102K50 \$C5245-C5264 CKSRYB102K50 \$C5232 CKSRYB105K6R3 \$C5230 CKSRYB105K6R3 \$C5205 CKSRYB472K50 \$C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 \$C5218,C5224,C5226,C5227 CKSSYF104Z16 \$C5243,C5244 CKSSYF104Z16 \$R5209,R5211,R5212,R5235 RAB4C101J \$R5205,R5255,R5265,R5266 RAB4C101J \$R5205 RAB4C103J \$R5270,R5271 RAB4C472J \$R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	F5401,F5403,F5409,F5410 CAPACITORS C5401,C5413,C5417,C5424 AC (100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 RA Other Resistors RS OTHERS K5401 TEST PIN IADDRESS CN BLOCK IA	CH1396 <ssyf104z: 16s###j<="" 16s56018="" <ssyf104z:="" ab4c101j="" ab4c220j="" s1="" td=""></ssyf104z:>
D5201 SML-310LT SWITCHES AND RELAYS \$5201 ASH1047 CAPACITORS \$C5213,C5225 (47/6.3V) ACH1357 \$C5206,C5223,C5231 CKSRYB102K50 \$C5245-C5264 CKSRYB102K50 \$C5232 CKSRYB105K6R3 \$C5230 CKSRYB105K6R3 \$C5205 CKSRYB472K50 \$C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 \$C5218,C5224,C5226,C5227 CKSSYF104Z16 \$C5243,C5244 CKSSYF104Z16 \$R5209,R5211,R5212,R5235 RAB4C101J \$R5205,R5255,R5265,R5266 RAB4C101J \$R5205 RAB4C103J \$R5270,R5271 RAB4C472J \$R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	CAPACITORS C5401,C5413,C5417,C5424 (100/6.3V) C5434,C5435 C5402-C5412,C5414-C5416 C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 R5408-R5413,R5415,R5416,R5419 R5422 R5405 Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	CH1396 KSRYB102K KSSYF104Z AB4C101J AB4C220J AB4C220J AB4C220J S1/16S56011 S1/16S###J
SWITCHES AND RELAYS S5201 ASH1047 CAPACITORS C5213,C5225 (47/6.3V) ACH1357 C5206,C5223,C5231 CKSRYB102K50 C5245-C5264 CKSRYB102K50 C5232 CKSRYB104K16 C5230 CKSRYB105K6R3 C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 RESISTORS R5209,R5211,R5212,R5235 RAB4C101J R5205 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	C5401,C5413,C5417,C5424 AC (100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 Cher Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	(SRYB102K (SSYF104Z (SSYF104Z AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
S5201 ASH1047 CAPACITORS C5213,C5225 (47/6.3V) ACH1357 C5206,C5223,C5231 CKSRYB102K50 C5245-C5264 CKSRYB102K50 C5232 CKSRYB104K16 C5230 CKSRYB105K6R3 C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 RESISTORS R5209,R5211,R5212,R5235 RAB4C101J R5205 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	C5401,C5413,C5417,C5424 AC (100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 Cher Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	(SRYB102K (SSYF104Z' (SSYF104Z' AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
S5201 ASH1047 CAPACITORS C5213,C5225 (47/6.3V) ACH1357 C5206,C5223,C5231 CKSRYB102K50 C5245-C5264 CKSRYB102K50 C5232 CKSRYB104K16 C5230 CKSRYB105K6R3 C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 RESISTORS R5209,R5211,R5212,R5235 RAB4C101J R5205 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	(100/6.3V) C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	(SRYB102K (SSYF104Z' (SSYF104Z' AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
CAPACITORS C5213,C5225 (47/6.3V) ACH1357 C5206,C5223,C5231 CKSRYB102K50 C5245-C5264 CKSRYB102K50 C5232 CKSRYB104K16 C5230 CKSRYB105K6R3 C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 RESISTORS R5209,R5211,R5212,R5235 RAB4C101J R5254,R5255,R5265,R5266 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	C5434,C5435 CK C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	(SSYF104Z ² (SSYF104Z ² AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
C5213,C5225 (47/6.3V) C5206,C5223,C5231 CKSRYB102K50 C5245-C5264 CKSRYB102K50 C5232 CKSRYB104K16 C5230 CKSRYB105K6R3 C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CK	C5402-C5412,C5414-C5416 CK C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK	(SSYF104Z' (SSYF104Z' AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
C5213,C5225 (47/6.3V) C5206,C5223,C5231 CKSRYB102K50 C5245-C5264 CKSRYB102K50 C5232 CKSRYB104K16 C5230 CKSRYB105K6R3 C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 CKSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSCYF104Z16 CKSYF104Z16 CKSSYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKSCYF104Z16 CKS	C5418-C5423,C5425-C5431 CK RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK	AB4C101J AB4C220J AB4C220J S1/16S5601F S1/16S###J
C5206,C5223,C5231	RESISTORS R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 RA R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	AB4C101J AB4C220J AB4C220J S1/16S5601I S1/16S###J
C5245-C5264 C5232 CKSRYB102K50 C5232 CKSRYB104K16 C5230 CKSRYB105K6R3 C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 RESISTORS R5209,R5211,R5212,R5235 R5209,R5211,R5212,R5235 R5254,R5255,R5265,R5266 R5205 R5205 R5205 R5207 R5270,R5271 R5256,R5257 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 RA R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	AB4C220J AB4C220J S1/16S5601 S1/16S###J
C5232 CKSRYB104K16 C5230 CKSRYB105K6R3 C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 RESISTORS R5209,R5211,R5212,R5235 RAB4C101J R5205 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	R5406,R5421 RA R5408-R5413,R5415,R5416,R5419 RA R5422 RA R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	AB4C220J AB4C220J S1/16S5601 S1/16S###J
C5230 CKSRYB105K6R3 C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 RESISTORS R5209,R5211,R5212,R5235 RAB4C101J R5205 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	R5408-R5413,R5415,R5416,R5419 RA R5422 RA R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	AB4C220J AB4C220J S1/16S5601 S1/16S###J
C5205 CKSRYB472K50 C5201-C5204,C5208,C5210-C5212 CKSSYF104Z16 C5218,C5224,C5226,C5227 CKSSYF104Z16 C5243,C5244 CKSSYF104Z16 RESISTORS R5209,R5211,R5212,R5235 RAB4C101J R5205 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	R5422 RA R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	AB4C220J S1/16S5601I S1/16S###J
C5218,C5224,C5226,C5227 C5243,C5244 RESISTORS R5209,R5211,R5212,R5235 R5254,R5255,R5265,R5266 R5205 R5270,R5271 R5256,R5257 R5256,R5257 RAB4C474J Other Resistors CKSSYF104Z16 CKSSY	R5405 RS Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	S1/16S5601 S1/16S###J
C5218,C5224,C5226,C5227 C5243,C5244 RESISTORS R5209,R5211,R5212,R5235 R5254,R5255,R5265,R5266 R5205 R5270,R5271 R5256,R5257 R5256,R5257 RAB4C474J Other Resistors CKSSYF104Z16 CKSSY	Other Resistors RS OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	S1/16S###J
C5243,C5244 CKSSYF104Z16 RESISTORS R5209,R5211,R5212,R5235 RAB4C101J R5254,R5255,R5265,R5266 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	OTHERS K5401 TEST PIN AK [ADDRESS CN BLOCK]	
RESISTORS R5209,R5211,R5212,R5235 RAB4C101J R5254,R5255,R5265,R5266 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	K5401 TEST PIN AK [ADDRESS CN BLOCK]	(X9002
R5209,R5211,R5212,R5235 RAB4C101J R5254,R5255,R5265,R5266 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	K5401 TEST PIN AK [ADDRESS CN BLOCK]	X9002
R5209,R5211,R5212,R5235 RAB4C101J R5254,R5255,R5265,R5266 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J	[ADDRESS CN BLOCK]	VX9002
R5254,R5255,R5265,R5266 RAB4C101J R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J		
R5205 RAB4C103J R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J		
R5270,R5271 RAB4C472J R5256,R5257 RAB4C474J Other Resistors RS1/16S###J		
R5256,R5257 RAB4C474J Other Resistors RS1/16S###J		
Other Resistors RS1/16S###J		
		S1/16S###J
OTHERS	Outer resistors	31/100 11111 0
OTHERS	<u>OTHERS</u>	
CN5201 PLUG 8-P AKM1225		KM1201
K5201 TEST PIN AKX9002	•	(M1217
⚠X5201 TEST FIN ARX9002 ⚠X5201 CERAMIC RESONATOR ASS1178	_ : ::: : ::: : : : : : : : : : : : : :	(M1218
CN5202 3P PH CONNECTOR B3B-PH-SM3		
ONOZOZ SI TITOONNEOTON BODITIONIS		
	[DIGITAL DD CON BLOCK]	
[PANEL FLASH BLOCK]	SEMICONDUCTORS	
SEMICONDUCTORS		Q05DZ11
IC5305 MBM29PL160BD-75PTF		Q09DZ11
IC5303 PST3612UR		(Y1066
IC5301 PST3628UR	Q5601,Q5603 HN	N1C01FU
IC5302 TC74VHC08FT	Q5605 RN	N1901
Q5301 RN1901		
	D5602,D5603,D5609,D5610 1S	SS355
D5301-D5310 1SS302		ZU2.2B
	D5604 UD	DZS5.1B
CAPACITORS		
C5320 CCSRCH470J50	<u>CAPACITORS</u>	
C5304,C5307 CKSRYB102K50	,,,	CH1394
C5311,C5314 CKSRYB104K16	(100/16V)	(OD) =
C5303,C5306 CKSRYB472K50		(SRYB103K
C5301,C5302,C5305,C5309,C5313 CKSSYF104Z16	C5605,C5606,C5610 CK	KSSYF104Z
	DECICTORS	
C5316 CKSSYF104Z16	RESISTORS	
	, ,	CN1162
<u>RESISTORS</u>	R5627 (3.3,1/2W) AC	CN1168
R5317,R5318 RAB4C101J	, ,	S1/16S###J
Other Resistors RS1/16S###J	, ,	
	, ,	

5	-	6	-	7	-	8	•
Mark No.	Description	Part No.	Mark		Description	Part No.	
<u>OTHERS</u>			· · · · · · · · · · · · · · · · · · ·	SISTORS			
⚠ CN5601 11P CC		B11B-PH-SM3		3599-R3602		RD1/2MMF2R2J	٨
⚠ CN5602 7P COI	NNECTOR	B7B-PH-SM3	Ot	her Resistors		RS1/16S###J	Α
			OTH	IERS			
				11 AUDIO HI	EATSINK	ANH1612	
HD SP T	ERMINAL AS	SY		N3504 3P CC		B3P-VH	
COILS AND FI	LTERS		35	12-3515 SCF	REW	VBB30P100FNI	
L3701,L3702		ATF1206	KN	N3501,KN350	2 WRAPPING TERM	IINALVNF1084	
CAPACITORS							
		CCSRCH101J50			IVE ASSY		
C3713-C3716		CCSRCH221J50					
C3709,C3710		CKSRYB332K50	-	X LOGIC E	-		
C3711,C3712		CKSRYF473Z50		<u>MICONDUC</u>	CTORS		В
DECICTORS				1002		TC74ACT540FT	
RESISTORS R3701-R3704		DD4/2MME4001		1001		TC74ACT541FT	
R3/01-R3/04		RD1/2MMF100J	IC	1003		TC74VHC08FT	
OTHERS			CAF	PACITORS			
J3701 6P HOUS	SING WIRE	ADX2838		1001		CEHAT470M25	_
CN3701 SPEAK		AKE1060	_	002-C1004		CKSRYB104K16	
∴3701 SPEAKER		ANK1710					
1 3702 SPEAKER	R SHIELD B	ANK1711	RES	SISTORS			
			R1	001,R1002,R	1005	RAB4C470J	
			R1	1003,R1004,R	1007	RAB4C472J	
LID ALID	10 AMB A00V	,					С
_	IO AMP ASS	ľ		<u>IERS</u>			O
<u>SEMICONDUC</u>	TORS		CN	N1001 30P FI	FC CONNECTOR	AKM1218	
IC3502		BD3869AS					
IC3504		LA4625					
IC3501 IC3503		NJM2195L NJM7809FA	[50]	Y RESON	ANCE BLOCK		
	3507,Q3510,Q3511	2SA1162	_	MICONDU(_		
Q0001,Q0002,Q	.0007,00010,00011	20/11102		1103	<u> </u>	BA10393F	
Q3503,Q3504,Q	3508	2SC2712	_	1101,IC1102		TND506MD	
Q3512		DTC124EK		1113		2SC2412K	
D3501-D3504		1SS355	Q1	1102,Q1103,C)1111,Q1112	2SK3560	
			Q1	1105,Q1106,C	Q1108,Q1109	2SK3723	
CAPACITORS		0000011004150				00115500	D
C3525	3520,C3528-C3532	CCSRCH221J50 CEAT100M50		1101,Q1104,C	21107,Q1110	CPH5506	
	3549,C3557,C3564	CEAT101M16		131 109,D1122		1SS133 1SS302	
C3519	3349,03337,03304	CEAT1R0M50		1109,D1122 1101,D1102,D	1104.D1105	EC11FS4	
C3536		CEAT220M50			1111,D1114-D1117	EC11FS4	
C3537,C3538		CEAT2R2M50		120,D1121,D	*	EC11FS4	_
C3551,C3552		CEAT330M25		103,D1113,D		FCU20A30	
C3566		CEHAT101M10		1124,D1125,D	1129,D1130	FCU20A30	
C3561 C3562,C3565		CEHAT101M16 CEHAT220M50	וט	1110,D1123		UDZS16B	
C0002,00000		OLI IAI ZZUNIOU	COI	LS AND F	ILTERS		
C3559,C3560		CEHAT2R2M50		104,L1103,L1		ATH1119	Е
C3509		CEHAT331M16		104,21103,21		ATH1155	
C3507		CEHAT471M25		102		ATH1156	
C3571		CEHAT472M25	L1	101		LFEA470J	
C3563		CEHATR47M50					
C3512,C3522,C3	2572	CFTLA103J50	· · · · · · · · · · · · · · · · · · ·	PACITORS			
	3518,C3533,C3534	CFTLA104J50			1114,C1125,C1126	ACE1168	
C3545-C3548,C		CFTLA104J50		3/250V)	Λ	ACE1160	
C3521		CFTLA333J50		127 (3.3/250\ 111,C1124 (ACE1168 ACG1104	
C3524		CFTLA334J50		1111,C1124 (1109,C1119 (ACG1104 ACG1108	
00-00		OFT 1 :		1101,C1105,C		CCSRCH331J50	
C3523	0E40 C2E07 C2E0E	CFTLA474J50		, , , , ,			F
C3506,C3508,C3 C3550,C3558	3510,C3527,C3535	CKSRYB103K50 CKSRYB103K50		128,C1130-C	1132	CKSRYB104K16	г
C3550,C3558 C3543,C3544		CQMA222J50		102,C1118		CKSRYB105K6R3	
330-10,000 11		J G (222000	C1	104,C1108,C	1115,C1122	CKSYB105K25	
			PDP-504PU				43
■ 5		6		7		8	

Mark No. Description	Part No.	Mark No. Description	Part No.
<u>RESISTORS</u>		R1235,R1236	RS2MMF121
R1154	RD1/4PU390J	Other Resistors	RS1/16S###
R1116,R1122	RS1/10S1003F		
R1133,R1143-R1145	RS1/10S100J	<u>OTHERS</u>	
R1103,R1106,R1110,R1111,R1118	RS1/10S2R2J	KN1201-KN1205,KN1208,KN1209	ANK-142
R1119,R1153,R1123,R1126	RS1/10S2R2J	(GROUND PLATE)	
		KN1210-KN1212,KN1213,KN1214	ANK-142
R1136	RS1/16S1202F	(GROUND PLATE)	
R1139	RS1/16S3301F	CN1201 12P CONNECTOR	B12B-EH
R1130	RS1/16S5601F		
R1134	RS1/16S8201F		
R1113,R1128	RS1MMF101J		
		[50 X D-D CON BLOCK]	
VR1101-VR1104	CCP1390	SEMICONDUCTORS	
Other Resistors	RS1/16S###J	IC1404	AN1431M
		IC1404	MIP161
		IC1402 IC1401,IC1403	
[50 X SUS BLOCK]		· · · · · · · · · · · · · · · · · · ·	TLP181(P-GF
SEMICONDUCTORS		Q1401	2SA1037K
	LIODI MO44	Q1402	2SC2412K
IC1202	HCPL-M611	D4 407 D4 400	F044F00
IC1205	NJM2872F05	D1407,D1408	EC11FS2
IC1203,IC1207	STK795-512	D1404	EC8FS6
IC1208	TLP181(P-GR)	D1401,D1403	UDZS5.6B
IC1204,IC1206	TND301S		
		COILS AND FILTERS	
Q1207	2SC2412K	L1401	ATH1110
Q1203	2SD1898	T1401	ATK1153
Q1302	2SJ522		
Q1301	2SK2503	CAPACITORS	
Q1205	2SK3116-Z	C1401,C1402 (22/315V)	ACH1361
		C1404	CEHAT101M
Q1206,Q1208	DTC124EK	C1405	CEHAT101M
Q1201	HN1B04FU	C1409	CEHAT331M
D1212	1SS302	C1403,C1407,C1408,C1411	CKSRYB104
D1211,D1213,D1216	1SS355	01403,01407,01400,01411	CRORTBTO4
D1201,D1207	EC10QS04	C1406	CKSRYF104Z
D1204,D1301	EC11FS4		
D1214	EC8FS6	<u>RESISTORS</u>	
D1208	UDZS5.6B	R1405,R1406,R1408-R1410,R1414	RS1/10S3602
2.200	02200.02	R1420	RS1/16S1101
COILS AND FILTERS		R1403	RS1/16S2702
L1204,L1205	ATH1112	R1401,R1404	RS1/16S470
•		R1417	RS1/16S7500
L1202	LFEA100J		
L1203,L1206	LFEA470J	VR1401 (1k)	CCP1390
CARACITORS		Other Resistors	RS1/16S###
<u>CAPACITORS</u>			
C1214-C1217,C1227-C1230	ACE1163	OTHERS	
C1233 (0.12/250V)	ACE1169	1002 CARD SPACER	AEC1957
C1244 (0.1/250V)	ACE1170	1002 OARD GLAGER	AEH1062
C1209 (0.1/630V)	ACG1092	1001 PLATE X	ANG2622
C1219,C1231	ACH1358	1001 PLATE X 1001 DRIVE HEATSINK A	ANH1613
		1001 SCREW	BMZ30P080F
C1224	CEHAT101M16	IUUI SUREW	DIVIZOUPUOUP
C1301	CEHAT221M25	1002 SCREW	DMD30D060
C1203,C1207,C1210,C1220,C1223	CEHAT470M25	1002 SCREW	PMB30P060F
C1238,C1239	CEHAT470M25		
C1235	CKSRYB102K50		
0.0.0	01/07//5	PANEL SENSOR ASS	Υ
C1213,C1225,C1240,C1241,C1243	CKSRYB104K16		•
_	CKSRYF104Z50	SEMICONDUCTORS	
C1202,C1205,C1206,C1212,C1302		IC1072	MM1522XU
		IC1071	MM3012XN
C1202,C1205,C1206,C1212,C1302 RESISTORS			
	ACN1166		
RESISTORS R1230 (2.2, 1/2W)	ACN1166 ACN1174	CAPACITORS	
RESISTORS R1230 (2.2, 1/2W) R1208,R1321,R1322 (10,1/2W)	ACN1174	<u>CAPACITORS</u> C1075 (47/6,3V)	ACH1357
RESISTORS R1230 (2.2, 1/2W) R1208,R1321,R1322 (10,1/2W) R1304 (560,1/2W)	ACN1174 ACN1195	C1075 (47/6.3V)	ACH1357 CKSRYB1031
RESISTORS R1230 (2.2, 1/2W) R1208,R1321,R1322 (10,1/2W) R1304 (560,1/2W) R1305 (1k,1/2W)	ACN1174 ACN1195 ACN1198	C1075 (47/6.3V) C1074	CKSRYB103I
RESISTORS R1230 (2.2, 1/2W) R1208,R1321,R1322 (10,1/2W) R1304 (560,1/2W)	ACN1174 ACN1195	C1075 (47/6.3V) C1074 C1071,C1076	CKSRYB103I CKSRYB104I
RESISTORS R1230 (2.2, 1/2W) R1208,R1321,R1322 (10,1/2W) R1304 (560,1/2W) R1305 (1k,1/2W)	ACN1174 ACN1195 ACN1198	C1075 (47/6.3V) C1074	CKSRYB103I

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Mark No. Description	Part No.	Mark No.	<u>Description</u>	Part No.	
RESISTORS R1076,R1078 Other Resistors	RS1/16S1001F RS1/16S###J	<u>CAPACITOR</u> C2212,C2213 (3.3/250V)	RS 3,C2214,C2225,C2226	ACE1168	А
Other Resisions	Κδ1/100###0	(3.3/250V) C2227 (3.3/2	/ 5 0\/)	ACE1168	
			4 (100p/630V)	ACG1104	
		C2210,C2223	3 (0.1/630V)	ACG1108	
50 Y DRIVE ASSY			5,C2216,C2217	CCSRCH331J50	
<u>OTHERS</u>		Cooon Cooo	- 00000 0000E	CL(OD)/D404K16	
2002 CARD SPACER	AEC1957	C2230,C2232 C2203,C2218	2,C2233,C2235 8	CKSRYB104K16 CKSRYB105K6R3	
2001 DRIVE SIRICON SHEET A	AEH1062		8 8,C2215,C2219	CKSRYB105K6R3	
2001 PLATEY	ANG2557	OLL C.,C	5,02210,02210	ONOTOTOTO	
2001 DRIVE HEATSINK A	ANH1613	RESISTORS	3		
2001 SCREW	BMZ30P080FZK	R2254	2	RS1/4PU390J	
COOC CODEW	DI IDOODOGOENII	R2240,R2241	1	RS1/10S1003F	
2002 SCREW	PMB30P060FNI	R2244-R2247	7	RS1/10S100J	В
		R2204,R2205	5,R2211,R2213,R2220	RS1/10S2R2J	
			4,R2228,R2253	RS1/10S2R2J	
[50 Y LOGIC BLOCK]		R2234 R2235		RS1/16S1202F RS1/16S3301F	
SEMICONDUCTORS		R2233 R2233		RS1/16S3301F RS1/16S5601F	-
IC2002	TC74ACT540FT	R2242		RS1/16S8201F	
IC2001,IC2003	TC74ACT541FT	R2215,R2230	n	RS1MMF101J	
IC2005	TC74VHC08FT	·			
IC2004	TC74VHC541FT	VR2201-VR2	` '	CCP1390	
Q2001	DTC124EK	Other Resisto	ors	RS1/16S###J	
<u>CAPACITORS</u>					С
C2001	CEHAT470M16				
C2010,C2011	CKSRYB104K16	[50 Y SUS B	SLOCK]		
C2002-C2006	CKSRYF104Z50	SEMICOND			
		IC2302,IC230		HCPL-M611	
RESISTORS		IC2305		NJM2872F05	_
R2018,R2019	RAB4C102J	IC2303,IC230		STK795-513	
R2002,R2004,R2013-R2015	RAB4C470J	IC2301,IC230	04,IC2309	TND301S	
R2005,R2006,R2012,R2016,R2017 Other Resistors	RAB4C472J RS1/16S### I	Q2310		2SC2412K	
Other Resistors	RS1/16S###J		_	2254000	
<u>OTHERS</u>		Q2303,Q2307 Q2301	7	2SD1898 2SJ522	
CN2001 50P CONNECTOR	AKM1201	Q2301 Q2302,Q2308	№ ∩ว312	2SJ522 2SK3325-Z	5
GIVEOUT GOT GOTTILG.S.C.	AINVIIZOI	Q2302,Q2300 Q2309	0,42012	HN1B04FU	D
		D2302		1SS302	
[50 Y RESONANCE BLOCK]		D2319,D2320	0	EC10QS04	
SEMICONDUCTORS		D2305		EC11FS4	
IC2211	BA10393F	D2301	-	UDZS16B	
IC2201,IC2202	TND506MD	D2306,D2318	8	UDZS5.6B	-
Q2213	2SC2412K	COILS AND	EIITEDQ		
Q2202,Q2211,Q2212,Q2214	2SK3560	L2306,L2307		ATH1112	
Q2205,Q2206,Q2208,Q2209	2SK3723	L2306,L2307 L2304		LFEA100J	
Q2201,Q2204,Q2207,Q2210	CPH5506	L2304 L2308		LFEA100J	
Q2201,Q2204,Q2207,Q2210 D2230	1SS133	L2301,L2302	1 2305	LFEA470J	Е
D2230 D2209,D2223	1SS302		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	_
D2209,D2223 D2202-D2205,D2207,D2208	EC11FS4	CAPACITOR	₹S		
D2213,D2214,D2216-D2219,D2222	EC11FS4	•	2,C2326,C2327	ACE1163	
•		(1.5/300V)			
D2226,D2227	EC11FS4	C2329,C2330		ACE1163	
D2201,D2206,D2211,D2215,D2220	FCU20A30	C2314 (0.04)	,	ACE1165	
D2228,D2229	FCU20A30	C2302 (0.1/6	330V)	ACG1092	
D2210,D2224	UDZS16B	C2316,C233	1 (300/280V)	ACH1358	
COILS AND FILTERS		C2303 (22/3	,	ACH1361	
L2203,L2205	ATH1119	C2336 (220/		ACH1393	
L2203,L2203 L2204	ATH1155	C2306,C2334	4	CEHAT221M25	
L2202	ATH1156	· · · · · · · · · · · · · · · · · · ·	4,C2339,C2340	CEHAT470M16	F
L2201	LFEA470J	5		10=	
		C2304,C2320 C2305,C2322	0,C2338 2,C2323,C2325,C2333	CEHAT470M25 CKSRYB104K16	
	=		_,,		
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Mark No.	Description	Part No.		Mark No.	Description	Part No.
C2341		CKSRYB104K16		D2403,D2414		EC11FS4
C2301,C2307,	,C2328	CKSRYF104Z50		D2402		EC8FS6
				D2427		RD91PA
RESISTORS				D2401		U1ZB330
		ACN4466		22.0.		0.22000
R2332 (2.2,1/2		ACN1166		D2412, D2413,	D2422	UDZS15B
R2364,R2365	(10,1/200)	ACN1174		D2425,D2426	DE 122	UDZS27B
R2309		RS1MMF132J		D2425,B2426		UDZS33B
R2310,R2311	D	RS1MMF472J		D2413 D2432		UDZS4.3B
R2312-R2314		RS3LMF100J		D2432 D2423,D2431		UDZS4.3B
R2348,R2352,	,R2358,R2359	RS3LMF1R8J		D2423,D2431		UDZ33.6B
Other Resistor	'S	RS1/16S###J		COILS AND F	<u>ILTERS</u>	
				T2402		ATK1156
<u>OTHERS</u>				T2403		ATK1157
KN2301-KN23	805,KN2310,KN2311	ANK-142		T2401		ATK1158
(GROUND PL	·			L2402		LFEA100J
	314,KN2315,KN2316	ANK-142		L2401		LFEA101J
(GROUND PL						
,	CONNECTOR	B11B-EH		L2403		LFEA470J
				CAPACITORS	}	
				C2406 (100/16	-	ACH1360
				C2400 (100/10		ACH1361
				C2401 (22/313	• /	CEHAT100M50
EUA SCANI	פו טכעי			C2427 C2403		
50 Y SCAN I	-				20/17	CEHAT101M16
SEMICONDU	<u>JCTORS</u>			C2405,C2407,C	DZ411	CEHAT101M2
IC2101,IC2103		HCPL-M611		00444		OF LIATOR (\$4)
IC2108,IC2109	9	HCPL-M611		C2414		CEHAT221M16
IC2102,IC2107	7	TC74ACT540FT		C2410		CEHAT221M2
				C2411		CEHAT331M25
COILS AND	FII TERS			C2420		CEHAT470M2
L2101-L2103	<u> </u>	LFEA100J		C2409,C2419		CKSRYB103K
				C2402 C2412 C	C2413,C2423,C2425	CKSRYB104K
CAPACITORS	S			C2431,C2432,C		CKSRYB104K
	 ,C2116,C2117 (47/160V)	ACH1392		C2431,C2432,C	02404-02400	CKSRYB104K
C2101,C2107,		CEHAT221M16			20.400	
C2102,C2103,		CKSRYB104K16		C2415,C2421,C		CKSRYB105K
	,C2112,C2114	CKSRYB104K16		C2404,C2408,C	C2416,C2418,C2426	CKSRYF104Z5
02100 02110	,02112,02114	OKOKI BIOTKIO		C2429		CKSRYF104Z5
DEGIGTODG						
RESISTORS				<u>RESISTORS</u>		
R2121,R2128		RAB4C472J		R2429 (180k,1	/2W)	ACN1225
Other Resistor	rs .	RS1/16S###J		R2435,R2439		RS1/10S2202F
				R2402-R2404		RS1/10S3902F
OTHERS				R2442		RS1/16S1201F
	102 15P CONNECTOR	AKM1200		R2468		RS1/16S1202F
				D2424		DC4/46C0004F
				R2424	22420	RS1/16S2001F
EOV D D CC	N DI OCIZI			R2420,R2427,F	12430	RS1/16S2201F
50 Y D-D CC				R2467		RS1/16S3301F
<u>SEMICONDU</u>	<u>JCTORS</u>			R2457-R2460		RS1/16S4701F
IC2410-IC2412	2	AN1431M		R2506		RS3LMF151J
IC2406		BA10358F		\/D0404\\/D5	00 (41)	0004000
IC2401		MIP0223SC		VR2401,VR240	` '	CCP1390
	5,IC2407-IC2409	TLP181(P-GR)		Other Resistors	;	RS1/16S###J
Q2402,Q2407	•	2SA1037K				
, == .01				<u>OTHERS</u>		
Q2410		2SA1163		2401 HEATSIN	IK	ANH1614
Q2417		2SA1535		2401 SCREW		BBZ30P080FZ
Q2411-Q2414	.Q2416	2SC2412K				
Q2411-Q2414 Q2405	,	2SC2713				
Q2403 Q2403		2SD1664				
Q2401,Q2404		2SD1898				
•						
Q2415		HN1C01FU				
D2430	D0400	1SS301				
D2410,D2419, D2409,D2418		1SS302 1SS355				
·						
D2404-D2407		EC11FS2	ND 5045			
; 1	_	2 PL	OP-504P	3	_	4
•	_	_		J		•

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6. ADJUSTMENT



6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ 50 X DRIVE Assy

When replaced

VRN Voltage adjustment.

■ PANEL IF Assy

When replaced

Replace the IC4201 from old assemble to new one.

■ 50 Y DRIVE Assy

• When replaced

No adjustment is required, because necessary adjustment has already been made.

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6.2 COMMAND

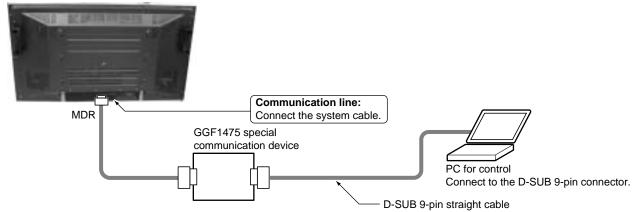
6.2.1 RS232C COMMAND

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• The panel control items for the PDP-504 system can be controlled with the RS-232C commands by connecting a PC through the GGF1475 special communication device when the Media Receiver is not connected with the PDP.

Note: The special communication device for the PDP-503P cannot be used with this unit, because the control lines within the MDR cable are different.

■ Connection



PDP-504PU

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• Schematic diagram of Jig

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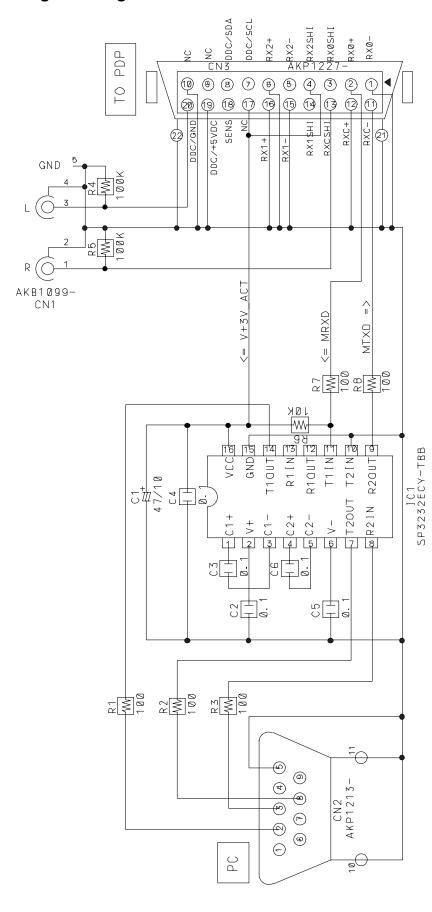
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PDP-504PU

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• RS-232C Commands for the module microcomputer

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Command Name		Command Name	Function		Validity of direct numeric input		
				Validity	Lower limit		
1		ABL ADJUSTMENT	Adjusting the upper limit of the power	0	0000	255	
2		AUDIO MUTE NO	Turning off the audio muting				
3		AUDIO MUTE YES	Turning on the audio muting		00	450	
5	BAL	BALANCE ADJUSTMENT BASS ADJUSTMENT	Adjusting the audio balance	0	98	158 135	
6	BAS BCP	BACKUP COPY	Adjusting the audio bass Copying the backup data in the EEPROM	- 0	121	135	
7			17.0				
8	DRF	CLEAR TRAP MEMORY DRIVE OFF	Clearing the TRAP log that records detection of opening of the rear cover Driving off				
9		DRIVE ON	Driving on				
10	F50	FREQENCY VIDEO 50Hz	Setting the frequency in Mask mode to 50 Hz (VIDEO)				
11	F60	FREQENCY VIDEO 60Hz	Setting the frequency in Mask mode to 50 Hz (VIDEO)				
12	F61	FREQENCY PC 60Hz	Setting the frequency in Mask mode to 60 Hz (VIDEO)				
13	F70	FREQENCY PC 70Hz	Setting the frequency in Mask mode to 70 Hz (PC)				
14	F72	FREQENCY VIDEO 72Hz	Setting the frequency in Mask mode to 70 Hz (10)				
15	F75	FREQENCY VIDEO 75Hz	Setting the frequency in Mask mode to 75 Hz (VIDEO)				
16	FAJ	FINISH ADJUSTMENT	Z-number F003 to 0003				
17	FCN	FOCUS NO	Turning the FOCUS function off				
18	FCY	FOCUS YES	Turning the FOCUS function on				
19	GAJ	GET ADJUSTMENT	Obtaining various adjustment values				
20	GPD	GET POWER-DOWN	Obtaining various adjustment values Obtaining the power-down-point log				
21		GET PANEL WHITE BALANCE					
22	GS1	GET STATUS 1	Obtaining information on the unit, such as the software version				
23	GS2	GET STATUS 2	Obtaining information on the status of the unit, such as the temperature				
24	GSD	GET SHUT DOWN	Obtaining information on shutdown				
25	LNN	LOUDNESS NO	Turning the Loudness function off				
26	LNY	LOUDNESS YES	Turning the Loudness function on				
27	M00	MASK MODE 0	Turning the Mask function off				
28	M01	MASK MODE 1	White raster (change in luminance level)				
29	M02	MASK MODE 2	White raster-zigzag, exact reversescangraywhite raster				
30	M03	MASK MODE 3	White rasterzigzag, exact reversescangraywhite raster				
31	M10	MASK MODE 10	H ramp (slant 1)				
32	M11	MASK MODE 11	H ramp (slant 4)				
33	M12	MASK MODE 12	H ramp (slant 1 shifting)				
34	M13	MASK MODE 13	H ramp (slant 4 shifting)				
35	M14	MASK MODE 14	V ramp (slant 1)				
36	M15	MASK MODE 15	Slanting ramp				
37	M20	MASK MODE 20	Window (for WB adjustment, Hi = 870, Lo = 102)				
38	M21	MASK MODE 21	Window (for WB adjustment, Hi = 1023, Lo = 102)				
39	M22	MASK MODE 22	Window (for measuring the peak luminance during WB adjustment, Hi = 1023)				
40	M23	MASK MODE 23	Window (for measuring the peak luminance, Hi = 1023, 4%)				
41	M24	MASK MODE 24	Window (for measuring the peak luminance, Hi = 1023, 1.25%)				
42	M25	MASK MODE 25	Window (vertical line with 1/7-width for measuring the stress)				
43	M26	MASK MODE 26	Window (magenta, green, and stripe for check)				
44	M27	MASK MODE 27	Window (green,magenta, and stripe for checker)				
45	M28	MASK MODE 28	Window (black & white [1 x 8], checker, for EMG check)				
46	M29	MASK MODE 29	Window (for WB adjustment, magenta = 512, yellow = 512)				
47	M2E	MASK MODE 2E	Wiper for erasing afterimage				
48	M2F	MASK MODE 2F	Mask for warning of cable disconnection				
49	M30	MASK MODE 30	ColorBar	<u> </u>	_		
50	M31	MASK MODE 31	Slanted lines (for checking cable disconnection)				
51	M51	MASK MODE 51	Raster-white				
52	M52	MASK MODE 52	Raster-red				
53	M53	MASK MODE 53	Raster-green	<u> </u>			
54	M54	MASK MODE 54	Raster-blue				
55	M55	MASK MODE 55	Raster-black				
56	M56	MASK MODE 56	Raster-cyan 1023				
57	M57	MASK MODE 57	Raster-magenta 1023				
58	M58	MASK MODE 58	Raster-yellow 1023				
59	M59	MASK MODE 59	Raster-cyan 274				
60	M60	MASK MODE 60	Raster-flesh color_50				
61	M61	MASK MODE 61	Raster-light purple_50				
62	M62	MASK MODE 62	Raster-sky blue_50				
63	M63	MASK MODE 63	Raster-red 779				
64	M64	MASK MODE 64	Raster-cyan 218				
65	M65	MASK MODE 65	Raster-cyan 448				

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		Command Name	Franctica	Validity	Validity of direct numeric input			
	Confinance Name		Function	Validity	Lower limit	Upper limit		
66	M66	MASK MODE 66	Raster-flesh color_43					
67	M67	MASK MODE 67	Raster-red 640					
68	M68	MASK MODE 68	Raster-magenta 98					
69	M69	MASK MODE 69	Raster-sky blue 1_43					
70	M70	MASK MODE 70	Raster-sky blue 2_43					
71	M71	MASK MODE 71	Raster-light purple_43					
72	M72	MASK MODE 72	Raster-blue 60					
73	M73	MASK MODE 73	Raster-gray 512 (reservation)					
74	M74	MASK MODE 74	Raster-gray 512 (reservation)					
88	PBH	PANEL BLUE HIGH	Panel white-balance adjustment: Blue highlight	0	000	511		
89	PBL	PANEL BLUE LOW	Panel white-balance adjustment: Blue low light	0	000	999		
90	PCN	PC RGB NO	Setting input-signal type to video					
91	PCY	PC RGB YES	Setting input-signal type to PC					
92	PGH	PANEL GREEN HIGH	Panel white-balance adjustment: Green highlight	0	000	511		
93	PGL	PANEL GREEN LOW	Panel white-balance adjustment: Green low light	0	000	999		
94	PLA	BRIGHT ENHANCE A	Center luminance-compensation function on (no correspondence with APL)					
95	PLB	BRIGHT ENHANCE B	Center luminance-compensation function on (in correspondence with APL)					
96	PLN	BRIGHT ENHANCE NO	Center luminance-compensation function off					
97	POF	POWER OFF	Power off					
98	PON	POWER ON	Power on					
99	PRH	PANEL RED HIGH	Panel white balance adjustment-red highlight	0	000	511		
100	PRL	PANEL RED LOW	Panel white-balance adjustment: Red low light	0	000	999		
101	SCN	SYSTEM CABLE NO	Prohibiting monitoring of cable-disconnection detection					
102	SCY	SYSTEM CABLE YES	Permitting monitoring of cable-disconnection detection					
103	SRN	SRS NO	SRS function off					
104	SRY	SRS YES	SRS function on					
105	TBN	TRUBASS NO	TruBass function off					
106	TBY	TRUBASS YES	TruBass function on					
107	TRE	TREBLE ADJUSTMENT	Audio treble adjustment	0	121	135		
108	TSN	TRAP SW NO	Prohibiting detection of opening of the rear case					
109	TSY	TRAP SW YES	Permitting detection of opening of the rear case					
110	UAJ	UN-ADJUSTMENT	Z-number 0003 to F003					
111	VOF	Vofs ADJUSTMENT	Vofs voltage reference-value adjustment	0	000	255		
112	VOL	VOLUME	Audio volume adjustment	0	000	060		
113	VSU	Vsus ADJUSTMENT	Vsus voltage reference-value adjustment	0	000	255		
114	XD1	XSUS-D-1	XSUS-D-1 adjustment	0	000	255		
115	XD2	XSUS-D-2	XSUS-D-2 adjustment	0	000	255		
116	XU1	XSUS-U-1	XSUS-U-1 adjustment	0	000	255		
117	XU2	XSUS-U-2	XSUS-U-2 adjustment	0	000	255		
118	YD1	YSUS-D1-1	YSUS-D1-1 adjustment	0	000	255		
119	YD2	YSUS-D1-2	YSUS-D1-2 adjustment	0	000	255		
120	YD3	YSUS-D2-1	YSUS-D2-1 adjustment	0	000	255		
121	YD4	YSUS-D2-2	YSUS-D2-2 adjustment	0	000	255		
122	YU1	YSUS-U-1	YSUS-U-1 adjustment	0	000	255		
123	YU2	YSUS-U-2	YSUS-U-2 adjustment	0	000	255		

■ Command description

Command	Function
GAJ	Obtaining various adjustment values
GPD	Obtaining power-down-point log
GPW	Obtaining panel white-balance adjustment values
GS1	Obtaining information on the unit, such as the software version
GS2	Obtaining information on the status of the unit
GSD	Obtaining information on shutdown

GAJ: Obtaining data on ABL setting values, electronic-control adjustment values, and drive-system adjustment values

Order	Data	Size	Remarks
1	ABL table currently used	3 bytes	AB1 - AB3
2	Upper limit of power	3 bytes	000 - 255
3	Vsus adjustment value	3 bytes	000 - 255
4	Vofs adjustment value	3 bytes	000 - 255
5	X-SUS-U1 adjustment value (XU1)	3 bytes	000 - 255
6	X-SUS-U2 adjustment value (XU2)	3 bytes	000 - 255
7	X-SUS-D2 adjustment value (XD2)	3 bytes	000 - 255
8	X-SUS-D1 adjustment value (XD1)	3 bytes	000 - 255
9	Y-SUS-U1 adjustment value (YU1)	3 bytes	000 - 255
10	Y-SUS-U2 adjustment value (YU2)	3 bytes	000 - 255
11	Y-SUS-D1-2 adjustment value (YD2)	3 bytes	000 - 255
12	Y-SUS-D1-1 adjustment value (YD1)	3 bytes	000 - 255
13	Y-SUS-D2-2 adjustment value (YD4)	3 bytes	000 - 255
14	Y-SUS-D2-1 adjustment value (YD3)	3 bytes	000 - 255

Note: Ignore the 2-byte checksum at the end.

GPD: Obtaining power-down-point log on the panel

Order	Data	Size	Remarks
1	Latest "1st PD" data	1 byte	0-C or F
2	Latest "2nd PD" data	1 byte	0-C or F
3	Data of hour meter for the latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
4	Data on temperature for the latest PD (TEMP1)	3 bytes	000 - 255
5	Second latest "1st PD" data	1 byte	0-C or F
6	Second latest "2nd PD" data	1 byte	0-C or F
7	Data of hour meter for the second latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
8	Data on temperature for the second latest PD (TEMP1)	3 bytes	000 - 255
9	Third latest "1st PD" data	1 byte	0-C or F
10	Third latest "2nd PD" data	1 byte	0-C or F
11	Data of hour meter for the third latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
12	Data on temperature for the third latest PD (TEMP1)	3 bytes	000 - 255
13	Fourth latest "1st PD" data	1 byte	0-C or F
14	Fourth latest "2nd PD" data	1 byte	0-C or F
15	Data of hour meter for the fourth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Data on temperature for the fourth latest PD (TEMP1)	3 bytes	000 - 255
17	Fifth latest "1st PD" data	1 byte	0-C or F
18	Fifth latest "2nd PD" data	1 byte	0-C or F
19	Data of hour meter for the fifth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
20	Data on temperature for the fifth latest PD (TEMP1)	3 bytes	000 - 255
21	Sixth latest "1st PD" data	1 byte	0-C or F
22	Sixth latest "2nd PD" data	1 byte	0-C or F
23	Data of hour meter for the sixth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
24	Data on temperature for the sixth latest PD (TEMP1)	3 bytes	000 - 255
25	Seventh latest "1st PD" data	1 byte	0-C or F
26	Seventh latest "2nd PD" data	1 byte	0-C or F
27	Data of hour meter for the seventh latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
28	Data on temperature for the seventh latest PD (TEMP1)	3 bytes	000 - 255
29	Eighth latest "1st PD" data	1 byte	0-C or F
30	Eighth latest "2nd PD" data	1 byte	0-C or F
31	Data of hour meter for the eighth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
31	Data on temperature for the eighth latest PD (TEMP1)	3 bytes	000 - 255

Notes: • Ignore the 2-byte checksum at the end. • For details, see "Description on power-down."

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• Description on power-down

Data	Power-down Point
0	No power-down
1	Not used (for MR-POWER)
2	Panel-POWER SUPPLY
3	SCAN
4	SCN-5V
5	Y-DRIVE
6	Y-DCDC
7	Y-SUS
8	ADR
9	X-DRIVE
Α	X-DCDC
В	X-SUS
С	DIG-DCDC
D	Reservation
E	Reservation
F	Power-down point unidentified

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GPW: Obtaining panel white-balance adjustment values

Order	Data	Size	Remarks	
1	W/B table currently used	3 bytes	PT1 - PT3	
2	Main contrast	4 bytes	0000 - 0511	
3	Red contrast of W/B adjustment value	4 bytes	0000 - 0511	
4	Green contrast of W/B adjustment value	4 bytes	0000 - 0511	
5	Blue contrast of W/B adjustment value	4 bytes	0000 - 0511	
6	Main brightness	4 bytes	0000 - 1023	
7	Red brightness of W/B adjustment value	4 bytes	0000 - 1023	
8	Green brightness of W/B adjustment value	4 bytes	0000 - 1023	
9	Blue brightness of W/B adjustment value	4 bytes	0000 - 1023	

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Note: Ignore the 2-byte checksum at the end.

GS1: Obtaining information on the unit, such as the software version (1)

Order	Data	Size
1	Display data	3 bytes
2	Version of the module microcomputer	4 bytes
3	IC4-MANTA version	4 bytes
4	Sequence version (43VIDEO)	4 bytes
5	Sequence version (43PC)	4 bytes
6	Sequence version (50VIDEO)	4 bytes
7	Sequence version (50PC)	4 bytes
8	Version of the IF microcomputer	4 bytes
9	Version of the main microcomputer	4 bytes
10	IC3-MANTA version	4 bytes
11	Version of the OSD	4 bytes
12	Reserve	12 bytes

GS6: Virsion (2)

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Order	Data	Size
1	Display data	3 bytes
2 (*1)	Version of DTV	4 bytes
3 (*1)	Version of CC	4 bytes
4 (*2)	PC - CARD	8 bytes
5 (*2)	TEXT	60 bytes

(*1) PU ONLY : Order 4,5 ** (*2) PE ONLY : Order 2,3 **

Note: Ignore the 2-byte checksum at the end.

(Reference) GS2: Obtaining information on the status of the unit

Order	Data	Size	Remarks
1	Notifying that the unit is shifting to Standby mode	1 byte	1: OK for shifting to Standby
2	Whether or not the main unit has been adjusted	1 byte	0: Adjusted, 1: Not adjusted
3	With/without backup for adjustment values	1 byte	0: With backup, 1: Without backup
4	Data on power-down	2 bytes	1st byte: 1stPD, 2nd byte: 2ndPD
5	Data on temperature (TEMP1)	3 bytes	0: Normal, 1: SD process completed, 2: In the process of SD warning
6	Abnormality in RST2 (power decrease of DC-DC converter)	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
7	IC4 communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
8	EEPROM communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
9	Audio failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
10	Volume IC communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
11	Backup ROM communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
12	Data on temperature (TEMP1) not obtained	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
13	Operational status of panel protection mechanism	1 byte	0: Protection mechanism not activated, 1: Protection mechanism activated
14	Reservation	9 bytes	******
15	Hour meter	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute

Notes: • Ignore the 2-byte checksum at the end.
• The data expected to be used for service may be "5. Data on temperature" and "15. Hour meter".

GSD: Obtaining information on shutdown

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Order	Data	Size	Remarks
1	Latest SD data	1 byte	0 - 5
2	Latest SD subcategory data	1 byte	0 - 2
3	Data of hour meter for the latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
4	Data on temperature for the latest SD (TEMP1)	3 bytes	000 - 255
5	Second latest SD data	1 byte	0 - 5
6	Second latest SD subcategory data	1 byte	0 - 2
7	Data of hour meter for the second latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
8	Data on temperature for the second latest SD (TEMP1)	3 bytes	000 - 255
9	Third latest SD data	1 byte	0 - 5
10	Third latest SD subcategory data	1 byte	0 - 2
11	Data of hour meter for the third latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
12	Data on temperature for the third latest SD (TEMP1)	3 bytes	000 - 255
13	Fourth latest SD data	1 byte	0 - 5
14	Fourth latest SD subcategory data	1 byte	0 - 2
15	Data of hour meter for the fourth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Data on temperature for the fourth latest SD (TEMP1)	3 bytes	000 - 255
17	Fifth latest SD data	1 byte	0 - 5
18	Fifth latest SD subcategory data	1 byte	0 - 2
19	Data of hour meter for the fifth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
20	Data on temperature for the fifth latest SD (TEMP1)	3 bytes	000 - 255
21	Sixth latest SD data	1 byte	0 - 5
22	Sixth latest SD subcategory data	1 byte	0 - 2
23	Data of hour meter for the sixth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
24	Data on temperature for the sixth latest SD (TEMP1)	3 bytes	000 - 255
25	Seventh latest SD data	1 byte	0 - 5
26	Seventh latest SD subcategory data	1 byte	0 - 2
27	Data of hour meter for the seventh latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
28	Data on temperature for the seventh latest SD (TEMP1)	3 bytes	000 - 255
29	Eighth latest SD data	1 byte	0 - 5
30	Eighth latest SD subcategory data	1 byte	0 - 2
31	Data of hour meter for the eighth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
32	Data on temperature for the eighth latest SD (TEMP1)	3 bytes	000 - 255

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Notes: • Ignore the 2-byte checksum at the end.
• For details, see "Description on shutdown".

• Description of shutdown

Data	Factors of shutdown
0	No abnormality
1	IC4
2	Module microcomputer IIC
3	Abnormality in RST2 (power decrease of DC-DC converter)
4	Panel having high temperature
5	Audio failure (speakers short-circuited)
6	Reservation
7	Reservation
8	Reservation
9	Reservation
Α	Reservation
В	Reservation
С	Reservation
D	Reservation
Е	Reservation
F	Reservation

• Module microcomputer IIC: Data on SD subcategory

Data	Factors of shutdown
0	No subcategory
1	EEPROM (DIGITAL VIDEO Assy: IC5206)
2	EEPROM (PANEL IF Assy : IC4002)
3	Volume IC
4	Reservation
5	Reservation
6	Reservation
7	Reservation
8	Reservation
9	Reservation
Α	Reservation
В	Reservation
С	Reservation
D	Reservation
Е	Reservation
F	Reservation

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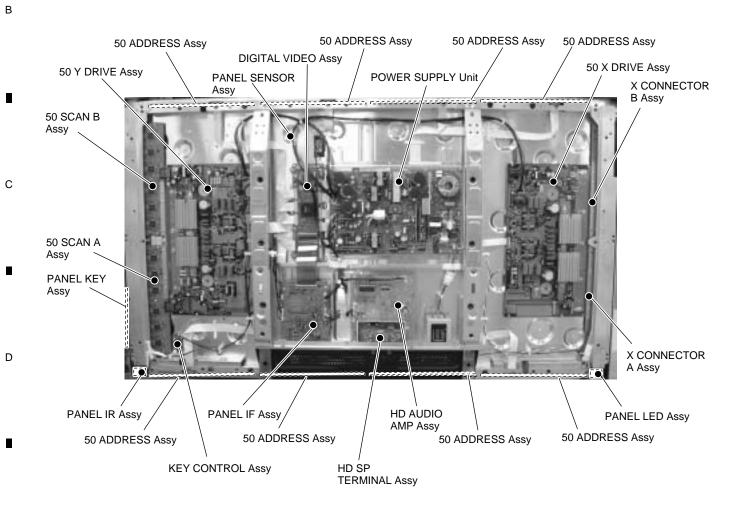
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7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PCB LOCATION



Rear view

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7.1.2 DIAGNOSIS OF SHUTDOWN/POWER-DOWN INDICATED BY LEDS

• Operation statuses indicated by LEDs

	MR-LED	PANEL-LED	
Standby	RED GREEN		
Power on	RED GREEN		
MR-AC power off	RED GREEN	1.0S 1.0S	Normal
P-AC power off	RED 1.0S 1.0S GREEN		B
MR power-down	RED 0.5S 3.0S]
MR shutdown	RED GREEN 0.5S 0.5S 0.5S 3.0S		Abnormality in MR
MR modification	RED GREEN		
P-power-down	RED GREEN	0.5\$ 0.5\$ 0.5\$	
P-shutdown	RED GREEN	0.5\$ 0.5\$ 0.5\$ 3.0\$	Abnormality C in the panel
P-modification	RED GREEN		
Disconnection of the system cable	RED 1.0S 1.0S GREEN	1.0\$ 1.0\$	Disconnection
Power management when the Media Receiver is not connected with the PDP	RED GREEN	1.0S 1.0S	of cable

Note: "P" stands for panel.

: Lit in red

: Lit in green

: Not lit

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• Identification of locations having abnormality by the number of times the LEDs flash

■On Shutdown and power-down

Shutdown

- Operation: When the microcomputer detects any abnormality, it forcibly turns off the unit.
- LED indication: The green LED flashes.

Power-down

- Operation: When the unit is in emergency status, a protection circuit is activated, and the power is turned off.
- LED indication: The red LED flashes.

	MR-	LED	PANEL-LED		_		Warning indication
Category	STB	ON	STB	ON	Content	Unit's operation	when the MR is connected
	Lit			1 time	Communication failure of the panel-drive IC	Immediate shutdown	
	Lit			2 times	Communication failure of the module IIC	Immediate shutdown	
	Lit			3 times	Power decrease of the digital DC-DC converter	Immediate shutdown	
	Lit			4 times	Panel having high temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature too high Check temperature around PDP. Check temperature around media receiver [SD04]
	Lit			5 times	Audio failure		Powering off. Internal protection circuits activated, Is there a short in speaker cable ? [SD05]
		6 times	Lit		Communication failure of the module microcomputer	Immediate shutdown	
SD		7 times	Lit		Main 3-wire serial communication in failure	Immediate shutdown	
		8 times	Lit		Communication failure of the main IIC	Immediate shutdown	
		9 times	Lit		Communication failure of the main microcomputer	Immediate shutdown	
		10 times	Lit		Fan in failure	Immediate shutdown	
		11 times	Lit		MR or unit having higher temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature too high Check temperature around PDP. Check temperature around media receiver [SD11]
		12 times	Lit		Communication failure of the digital tuner	Immediate shutdown	
		13 times	Lit		MR-ASIC power (DC-DC) in failure	Immediate shutdown	
		14 times	Lit		Communication failure of IF-EEPROM	Immediate shutdown	
	1 time		Lit		MR power supply	Immediate power-down	
	Lit		2 times		Panel-POWER SUPPLY	Immediate power-down	
	Lit		3 times		SCAN	Immediate power-down	
	Lit		4 times		SCAN-5V	Immediate power-down	
	Lit		5 times		Y-DRIVE	Immediate power-down	
PD	Lit Lit		6 times 7 times		Y-DCDC Y-SUS	Immediate power-down Immediate power-down	
רט	Lit		8 times		ADDRESS	Immediate power-down	
	Lit		9 times		X-DRIVE	Immediate power-down	
	Lit		10 times		X-DCDC	Immediate power-down	
	Lit		11 times		X-SUS	Immediate power-down	
	Lit		12 times		DIGITAL-DCDC	Immediate power-down	
	Lit		15 times		UNKNOWN *	Immediate power-down	

^{*} If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

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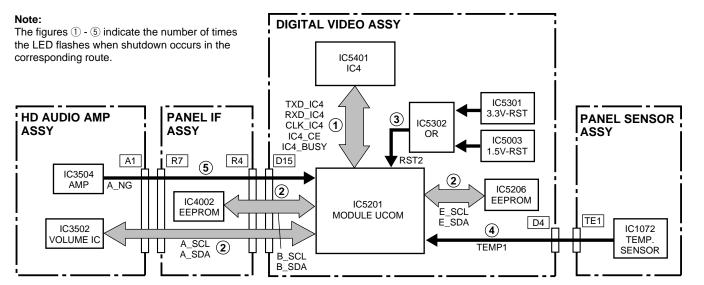
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• Block diagram of the shutdown signal system



• Diagnosis of shutdown

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LED	SD Circuit in Operation	Defective Assy	Reason for Shutdown	Point to be Checked	Possible Defective Part	Remarks
			Communication failure of IC4	IC4 BLOCK, PANEL FLASH BLOCK	IC5401, IC5305	
1 time	Communication failure of the panel-drive IC	DIGITAL VIDEO	Writing failure of IC4			After turning the unit on again, check if the data on the version can be read with the GS1 command.
		DIGITAL VIDEO	Communication failure of the EEPROM (4K)	MODULE UCOM BLOCK	IC5206	
	Communication		Communication failure of the EEPROM (2K)	PANEL IF BLOCK	IC4002	
2 times	failure of the module IIC (Check the shutdown	PANEL IF	Disconnection of cable	CN4009 - CN3501		Check if the cable is disconnected or not securely connected.
	subcategory on	HD AUDIO	Defective volume IC	HD AUDIO AMP Assy	IC3502	
	the Factory menu.)		Defective 114-pin FPC	CN4004 - CN5001	ADY1081	Check if the 114-pin FPC is broken or not securely connected.
0 11	Power decrease of	DIGITAL VIDEO	Defective DC-DC converter	DIGITAL DD CON BLOCK	U5601	Check if 3.3 V, 2.5 V, and 1.5 V are activated.
3 times	DIGITAL-DC-DC		Defective RST IC	PANEL FLASH BLOCK	IC5301, IC5302, IC5303	
		POWER SUPPLY	No startup of 12 V			
			Cable disconnected	CN5202 - CN1071		
4 times	Panel having higher temperature		Panel having higher temperature	Surrounding temperature		Shutdown occurs when the sensor temperature becomes 77°C or more (PDP- 434P) or 83°C or more (PDP-504P).
			Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
5 times	Audio failure	HD AUDIO	Defective AMP IC	HD AUDIO AMP ASSY	IC3504	
		HD AUDIO	Disconnection of cable	CN4009 - CN3501		Check if the cable is disconnected or not securely connected.

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• Power-down diagnosis (defective points)

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	PD Circuit in operation	Defective Assy	Reason for Power-down	Point to be Checked	Possible Defective Part	Remarks
-	MR POWER					
7	POWER	POWER SUPPLY Unit				If the elapsed time from relay-on until the LED in the power supply unit lights is about 2-4 seconds, the defective assembly may be the 50 X or Y DRIVE.
		50 X DRIVE Assy	VSUS UVP	X SUS BLOCK	IC1203 - IC1207 (mask module)	
		50 Y DRIVE Assy	VSUS UVP	Y SUS BLOCK	IC2303 - IC2307 (mask module)	
			VH UVP	SCAN IC	SCAN IC	
က	SCAN	50 SCAN A, B Assy or Y 43 DRIVE Assy	VH UVP	VH DC/DC	IC2401, IC2402, IC2410, L2401	
			Disconnection of cable detected	CN2001, CN2301		
			Disconnection of cable detected	CN2101, CN2102		
4	SCN-5V	50 SCAN A, B Assy or 43 Y DRIVE Assy	IC5V UVP	SCAN IC, IC5V DC/DC Y SUS BLOCK	SCAN IC, Q2401, Q2402, IC2304, IC2309	
			IC5V OVP	IC5V DC/DC	IC2403, IC2411	
2	Y-DRIVE	50 Y DRIVE Assy	+16.5V OCP	Y SUS BLOCK	IC2303 - IC2307 (mask module), IC2301, IC2304, R2309	
			VOFS UVP	VOFS DC/DC	IC2404, IC2412, Q2404, Q2407	
9	Y-DCDC	50 Y DRIVE Assy	VOFS OVP	VOFS DC/DC	IC2404, IC2412	
			VH OVP	VH DC/DC	IC2402, IC2410	
7	Y-SUS	50 Y DRIVE Assy	Power-down caused by detection of middle-point voltage	Y RESONANCE BLOCK	Q2202, Q2214, Q2205, Q2206, Q2208, Q2209, Q2211, Q2212, IC2201, IC2202, Control signal series resistors	
		DIGITAL VIDEO Assy	Power-down caused by detection of middle-point voltage	DIGITAL VIDEO Assy	IC5401, Control signal series resistors	
			Disconnection of cable detected	CN1501		
8	ADRS	50 ADDRESS Assy	Power-down caused by detection of a power surge	ADR RESONANCE BLOCK	R1631, Q1601, D1602	
			Power-down caused by detection of middle-point voltage	ADR RESONANCE BLOCK	Q1602, C1609, D1606, D1607	
			Disconnection of cable detected	CN1001, CN1201		
6	X-DRIVE	50 X DRIVE Assy	+16.5V OCP	X SUS BLOCK	IC1203, IC1207 (mask module), IC1204, IC1206, R1230	
			VRN OCP	X SUS BLOCK	Q1205, R1226, R1251	
			VRN OVP	VRN DC/DC	IC1403, IC1404	
10	X-DCDC	50 X DRIVE Assy		VRN DC/DC	IC1402, IC1403, IC1404	
				X SUS BLOCK	Q1205, R1226, R1251	
11	x-sus	50 X DRIVE Assy	Power-down caused by detection of middle-point voltage	X RESONANCE BLOCK	Q1102, Q1103, Q1105, Q1106, Q1108, Q1109, Q1111, Q1112, IC1101, IC1102, Control signal series resistors	
		DIGITAL VIDEO Assy	Power-down caused by detection of middle-point voltage	DIGITAL VIDEO Assy	IC5401, Control signal series resistors	UVP : Under Voltage Protection
12	12 DIG-DCDC	DIGITAL VIDEO Assy	DCDC +3.3V, +1.5V OVP	DC DC CONVERTER BLOCK	U5601 (DC DC CONVERTER Module)	OCP : Over Current Protection

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7.1.3 DIAGNOSIS WITH THE AID OF FACTORY MODE

. Diagnosis with the aid of Factory mode

When the Media Receiver is connected, the power-down and shutdown logs can be referred to with OSD. Only the items useful when servicing the PDP-434PU/PDP-504PU are described here.

■ How to enter Factory mode using the remote control unit

Please refer to the technical documentation (Service knowhow).

■ Power-down log (INFORMATION-PANEL PD)

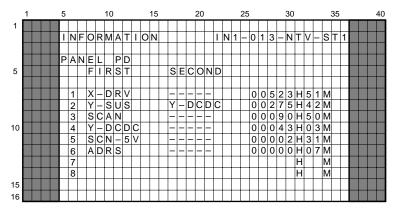
The last 8 power-down records are held, with the latest power-down displayed at the top. In the FIRST column, the location where the PD circuit was activated first (location indicated by flashing of the LED during power-down) is indicated, and in the SECOND column, the location where the PD circuit was activated second is indicated.

Note: There may not be a SECOND PD.

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■ Shutdown log (INFORMATION-PANEL SD)

The last 8 shutdown records are held, with the latest shutdown displayed at the top. If a shutdown occurred because of "MD-IIC" (communication failure of the module microcomputer IIC), the subcategory is indicated to inform you of with which device the microcomputer was in the process of communicating when a failure occurred.

	1		5					10					15					20				25				- 3	30					35			4	40
1															Г																					
			1	N	F	0	R	М	Α	Т	I	0	Ν						I	Ν	1	_	0	1	3	_	Ν	Т	٧	_	S	Т	1			
			Р	Α	Ν	Е	L		Р	D					Г																					
5						М	Α	ı	N					s	U	В																				
				1		Α	U	D	1	0				-	-	-	-	-			0	0	1	0	3	Н	5	1	М							
				2		Μ	D	_	1	1	С			٧	0	L	ı	С			0	0	0	7	5	Н	4	2	М							
				3		Т	Ε	M	Р	1				_	_	_	_	_			0	0	0	5	0	Н	5	0	M							
10				4		Т	Ε	M	Р	1				_	_	_	_	_			0	0	0	5	0	Н	4	5	М							
				5																						Н			М							
				6																						Н			M							
				7																						Н			M							
				8																						Н			М							
15																																				
16																																				

[Data on MD-IIC subcategories]

OSD	Defective communication part
EROM4K	IC5206: Module microcomputer
EROM2K	IC4002: EEPROM for backup
VOLIC	IC3502-Volume IC

■ Data on temperature (INFORMATION-TEMPERATURE)

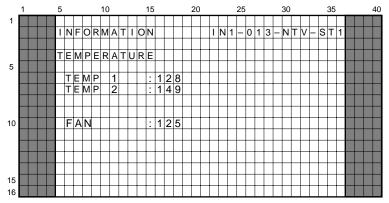
The data on the current temperatures are displayed.

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The temperature at the PANEL SENSOR ASSY of the PDP-434P/PDP-504P is indicated as the TEMP 1 value (000-255), which should be converted using the following formula:

Current temperature (°C) $= 0.65 \times \text{TEMP 1 value} - 52$

Note: Shutdown caused by high TEMP 1 value PDP-434P: TEMP 1 value > 200 ($= 77^{\circ}$ C) PDP-504P: TEMP 1 value > 209 ($= 83^{\circ}$ C)



Note: To update the data on temperature, use the Left and Right keys on the remote control unit.

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7.1.4 TROUBLE SHOOTING

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[Diagnosis of abnormalities other than shutdown and power-down]	other than shut	down and power-dow	m]		
Symptom	Defective Assy	Possible Cause	Check Point	Possible Defective Part	Remarks
No power (both red and green LEDs unlit)		Cable disconnection	CN4001		Check if the connection between the POWER SUPPLY and PANEL IF assemblies is properly made.
No power (green LED not lit)		Defective 114-pin FPC	CN4004 - CN5001	ADY1081	Check if the FPC is broken or not securely inserted.
		Detection by the TRAP switch	CN4006		Check if the TRAP switch is properly set. (See "7.1.4 Canceling detection of the TRAP switch".)
No power (both red and green LEDS III)		Defective TRAP switch		ASG1089	Check if the unit works properly when detection of the TRAP switch is canceled. (See "7.1.4 Canceling detection of the TRAP switch.")
The power is (sometimes) interrupted.		Defective system cables	CN4002, CN4003		Check if the system cables are securely connected. (See "7.1.5 Operation when the Media Receiver is not connected.")
The power is interrupted, and the red and green warning indications appear on the screen.		System cables not connected			Check connection of the system cables. (See "7.1.5 Operation when the Media Receiver is not connected.")
		Cable disconnection	CN4801 - CN4851	ADD1225	Check if the FPCs are properly connected. Check if imparting vibration to the unit affects key inputs. Check if a pulse is output when the key corresponding to Pin 2 of the CN4852 is pressed.
Key input not effective		Cable disconnection	CN4852 - CN4010		Check if the cables are disconnected or not securely connected. Check if a pulse is output when the key corresponding to Pin 5 of the CN4010 is pressed.
	KEY CONTROL	Defective KEY SCAN IC	KEY CONTROL Assy IC4851	IC4851	Check if a pulse is output when the key corresponding to Pin 2 of the CN4852 is pressed.
		Cable disconnection	CN4901 - CN4010		Check if the cables are not connected or securely connected.
Remote control unit not effective					Check if the FPCs are properly connected.
	PANEL IR	Defective infrared receiver	PANEL IR	U4901	Check if a pulse is output when the key corresponding to Pin 3 of the CN4010 is pressed.
Abnormality in a one-eighth area of the	DIGITAL VIDEO	Defective IC4	IC4 BLOCK	IC5401	Check if an abnormal area in the screen changes when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.
screen	ADDRESS				Check that an abnormal area in the screen does not change when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.
Abnormal screen (Data of every other dot are abnormal)		Defective 114-pin FPC	CN4004 - CN5001	ADY1081	Check if the FPC is broken or not securely inserted.

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7.1.5 CANCELING DETECTION BY THE TRAP SWITCH

Canceling detection by the TRAP switch

For video data transmission from the Media Receiver to the plasma display, digital signals are used. Therefore, this unit adopts

the HDCP (High-bandwidth Digital Content Protection) system for copyright protection. This unit is also provided with a detection switch (TRAP switch) that will prohibit the unit from being turned on again if the rear case of the unit is opened, in

order to prevent the panel technology from being leaked out.

Function: To deactivate the detection of the TRAP switch

Purposes: 1. During production of this unit, adjusting with the rear cover opened is possible.

2. During servicing or repairing, diagnoses of the assemblies are possible while the power is on.

Methods: For setting, use RS232C commands:

TSN: Ignore the monitoring of the switch CTM: Clear the detection log of the switch TSY: Reactivate monitoring of the switch

Notes:

- The TRAP switch is located on the chassis (see Fig. below).
- · Once rear case opening is detected, send the TSN and CTM commands.
- Because the TSN command is not stored in memory, monitoring of the switch can be reactivated by turning the unit off then back on.
- The same setting is possible using the Factory menu.
- · Because the output of the DVI receiver is controlled by the physical setting of the TRAP switch, if the TRAP switch is set to OPEN, the DVI signal cannot be output even if the TSN command is sent.
- · When the Media Receiver is connected, detection by the TRAP switch can be canceled by entering Factory mode.

How to enter Factory mode using the remote control unit

Please refer to the technical documentation (Service knowhow).

How to clear the detection log of the TRAP switch

In the INITIALIZE layer, hold the OSD key on the remote control unit pressed for at least 3 seconds.

After a power-down, to cancel detection of the TRAP switch using only the remote control unit, follow the procedures below.

First, fix the TRAP switch to its depressed position. Set the drive ON/OFF switch in the DIGITAL VIDEO Assy to OFF, Then enter the Factory mode. Press the MUTE key four times, then hold the OSD key pressed for at least 3 seconds. Set the AC switch on the panel to OFF. The log is also cleared. Then set the drive ON/OFF switch to ON.

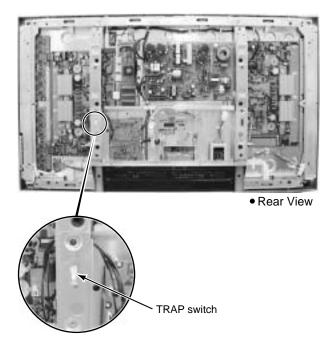


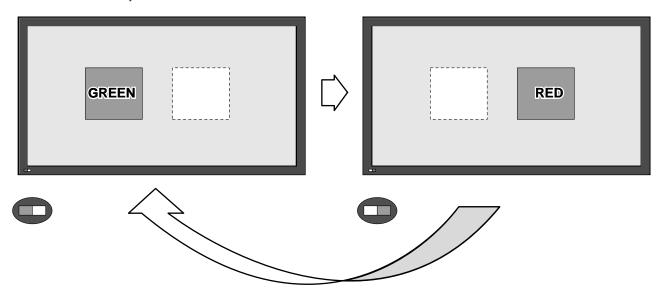
Fig. TRAP switch

PDP-504PU

7.1.6 OPERATION WHEN THE MEDIA RECIVER IS NOT CONNECTED

As the connection conditions of the system cables (MDR cable, DVI cable) are usually detected, if no connection, such as cable disconnection, is detected, a warning indication (alternate flashing of the red and green areas) is displayed on the mask screen, and the red and green LEDs flash alternately. Then after about 30 seconds, the power is automatically turned off.

Note: Only when the power is turned on again, a warning indication on the mask screen restarts. During standby, only the red and green LEDs flash alternately.



Alternate flashing at intervals of about 1 second

To operate the panel without the Media Receiver, there are the following two ways:

1. Operation-without-the-Media-Receiver mode

Input the "SCN" RS232C command. The status of the LEDs changes to that in normal operation mode.

Note: Turning the AC switch to OFF then ON also maintains this mode. However, once the unit is connected with the Media Receiver using the MDR cable, this mode is automatically canceled.

2 DVI mode

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Turn the unit on while PC and DVI SG signals are being input with only the DVI connecter connected. After a warning is displayed for about 5 seconds, the unit is ready to display the screen of the input signal. (Green LED lit)

Notes: • Although the output from XGA (43 inch) and WXGA (50 inch) can be input to the unit, this is not a mode open to general users. (With some signals, errors such as power-down may occur.)

• If a DE signal from the SG is not input during DVI mode, the green LED flashes (at intervals of 2 sec) for about 8 seconds, then the unit shifts to Power Management mode (the green LED lights).

7.1.7 TEMPERATURE-COMPENSATION FUNCTION OF THE DRIVE-SYSTEM VOLTAGE

Function: To control the DRIVE-system voltage according to the temperature (Temperature compensation functions such that the voltage is lowered on the lower-temperature side and the voltage becomes higher on the higher-temperature side.)

Purpose: For improving the yield by compensating for the temperature characteristics of the panel

Note: Temperature compensation is performed only for the VSUS voltage, and not for the VOFS voltage. This compensation is controlled by the software.

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7.1.8 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: Only the power for the small-signal system (16.5 V, 12 V, and 6.5 V) is on, and the power for the large-signal system (VSUS, VADR) is off.

Usage: 1. Use when only an operational check for the small-signal system is required, such as when making repairs.

2. Use when rewriting of a program for each microcomputer is required.

Methods: 1 Set the slide switch (S5201) on the DIGITAL VIDEO Assy to its upper position (see Fig. below).

- 2. Send the "DRF" RS232C command to turn the large-signal system off.
- 3. Send the "DRN" RS232C command to turn the large-signal system on.

Notes:

- As the unit enters Power-Down and Muting On mode when Methods 1 and 2 are performed, and power-downs other than those caused by the power (PS_PD) and DC-DC-converter (DIGITAL_DC-DC) circuits are not activated.
- If the slide switch is set from OFF to ON while the power is on, a power-down will occur. Be sure to turn the power off before switching the slide switch.

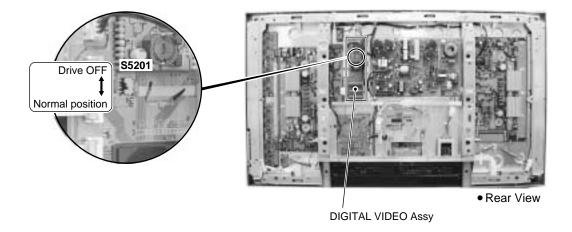


Fig. Drive OFF switch

PDP-504PU

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7.1.9 BACKING UP THE ADJUSTMENT VALUES FOR THE MAIN UNIT

Outline

The data on the adjustment values for the main unit are stored in an EEPROM (IC5206, 4 kbits) on the DIGITAL VIDEO Assy. Part of the data (area A in the figure below) are automatically copied to an EEPROM (IC4002, 2 kbits) mounted on the PANEL IF Assy for backup. When the DIGITAL VIDEO Assy is replaced, the backup data on the adjustment values for the main unit stored in the PANEL IF Assy can be copied to the new DIGITAL VIDEO Assy, thus enabling you to omit newly performing adjustments on the main unit. The logs for the product (power-down log, etc.) can also be copied.

Data to be backed up in the digital EEPROM (area A)

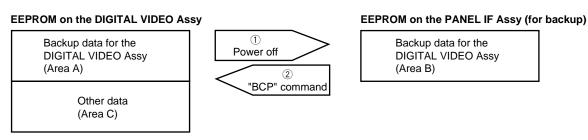
- Margin adjustment values (Vsus, Vofset)
- Power upper-limit adjustment value (ABL)
- PANEL white-balance adjustment values (PANEL-R HIGH, PANEL-G HIGH, PANEL-B HIGH, PANEL-R LOW, PANEL-G LOW, PANEL-B LOW)
- Drive waveform adjustment values
 (X-SUS-U1, X-SUS-U2, X-SUS-D1, X-SUS-D2, Y-SUS-U1, Y-SUS-U2, Y-SUS-D1, Y-SUS-D2, Y-SUS-D3, Y-SUS-D4)
- Hour meter
- · Pulse meter
- · Number of times the power has been turned on
- PD/SD logs

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Basic flow of automatic backup

Using a keyword, the data in areas A and B are judged as to whether they have been adjusted or not, then copying is performed.

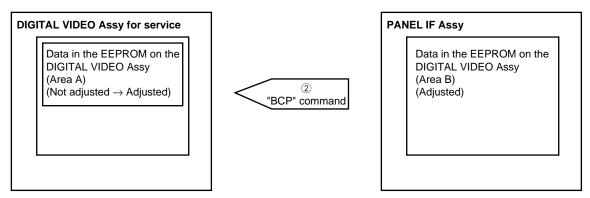


- ① The keyword on the DIGITAL VIDEO Assy is checked when the power is turned off, and if it is "adjusted", automatic backup is performed.
- ② If the keyword on the PANEL IF Assy (Area B) is "adjusted," copying can be performed with the "BCP" RS232C command.

■ Actual automatic backup operations

1. When the DIGITAL VIDEO Assy is replaced with an Assy for service

Changing of keywords is not required. Replace the DIGITAL VIDEO Assy with an Assy for service, and send the "BCP" RS232C command. Thus, the backup data in the EEPROM on the PANEL IF Assy are copied to the EEPROM on the DIGITAL VIDEO Assy for service.



2. When a repaired DIGITAL VIDEO Assy is mounted on another unit (reuse of the repaired DIGITAL VIDEO Assy) The keyword of the DIGITAL VIDEO Assy to be reused must be changed to "not adjusted" using the "UAJ" RS232C command.

Note 1: If a repaired DIGITAL VIDEO Assy is mounted in another unit (Unit 2) without this change of keyword, and the power to the unit 2 is turned off, the data in force before the repair of the DIGITAL VIDEO Assy will be copied to Area B of the PANEL IF Assy of Unit 2, overwriting the data necessary for Unit 2. Once overwritten, the original data will not be restored.

- 3. When a repaired DIGITAL VIDEO Assy is mounted on the original unit (reuse of the repaired DIGITAL VIDEO Assy) Changing of keywords is not required. After the repaired DIGITAL VIDEO Assy is mounted in the original unit, the unit can operate with its latest adjustment values.
- 4. When both the DIGITAL VIDEO Assy and PANEL IF Assy are simultaneously replaced with other assemblies The automatic backup function of this unit will not work properly.
- Note 2: Readjustment of the main unit is required.
- Note 3: After readjustment of the main unit, send the "FAJ" RS232C command to change the keyword of the DIGITAL VIDEO Assy to "adjusted." Thus, when the unit is turned off, automatic backup of adjustment data is performed properly.
- Note 4: If readjustment of the main unit is totally impossible, it can be omitted by installing the EEPROM (IC5206, 4 kbits) originally mounted on the DIGITAL VIDEO Assy for service.

Miscellaneous

If the white balance (W/B) value is largely shifted because of aging, etc., W/B adjustment is required. (As this may be a rare case, the adjustment procedures are described below, just for your reference.

[W/B-adjustment procedures]

The W/B adjustment can be performed with the RS232C commands with the Media Receiver not connected to this unit. The GGF1475 special communication tool and a Minolta CA-100 color difference meter are required.

- ① Enter Operation-without-the-Media-Receiver mode with the "SCN" RS232C command.
- ② Set the keyword for the DIGITAL VIDEO Assy to "not adjusted" with the "UAJ" RS232C command.
- ③ Obtain the current adjustment values in the two adjustment tables (see "6.2.1 RS232C commands").
 - Shifting to Table 1: Send the "M51" and "F60" commands. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "M51" and "F75" commands. Obtaining the adjustment values: Send the "GPW" command.
- 4 Make settings for various functions.

Send the "PPN," "SDN," "SPN," and "WAY" commands.

Note: After adjustment, when the POWER switch is set to OFF, these settings will be reset to the initial values.

- 5 For each table, set the brightness.
 - Adjustment in Table 1: After sending the "F60" command, perform adjustment.
 - Adjustment in Table 2: After sending the "F75" command, perform adjustment.

For each table, change the RGB parameters so that the values measured using a Minolta color difference meter (CA-100) become as indicated below. In this case, any one of PRH, PGH, or PBH must be set to 256.

	Left side of Mask H	Right side of Mask H	
х	_	284	"PRH***" : 000 - 511 "PGH***" : 000 - 511
У	-	292	"PBH***" : 000 - 511

- 6 Check after adjustment
 - Shifting to Table 1: Send the "F60" command. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "F75" command. Obtaining the adjustment values: Send the "GPW" command. Check that the adjustment data have been changed.
- ① Change the keyword for the DIGITAL VIDEO Assy to "adjusted" by sending the "FAJ" RS232C command.

Note: Use a Minolta CA-100 color difference meter or the equivalent for measurement. Otherwise, the specifications of the product cannot be assured.

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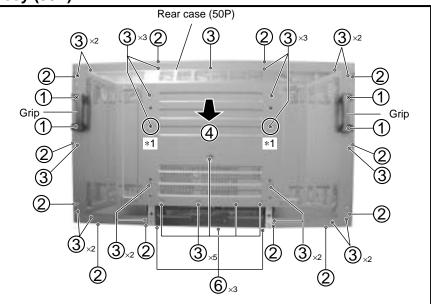
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- (1) Remove the grip by removing the 4 screws.
- (2) Remove the 12 screws (B tight).
- Remove the 16 screws (M screws). Note: At the time of a re-assembly, please attach after fixing a positioning hole previously.
- (4) Remove the rear case (50P).



- (5) Remove the 3 screws (B tight).
- (6) Remove the flexible cable (J211) from the PANEL KEY Assy.
- $\overline{7}$ Remove the front case (50P).

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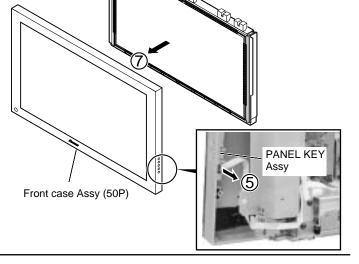
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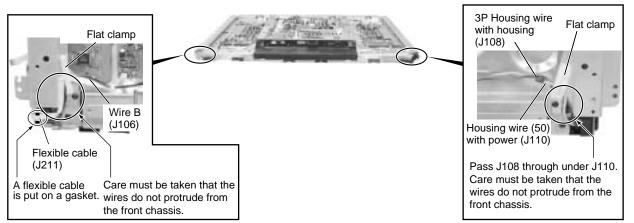
As the screws used for the front case are B tight (ABZ30P100FZK) and other screws used are M screws (AMZ30P060FZK), care must be taken not to use the screws in the wrong places.

• When only the front case Assy (50P) is removed

 $2 \rightarrow 5 \rightarrow 6 \rightarrow 7$



Notes when reassembling the rear case (50P)



2

2 Front chassis VL Assy (50), Front chassis VR Assy (50) 8 Flat clamp IR holder (1) Remove the front case, then remove the screw that secures the IR holder. 2 Remove the nylon rivet, then remove the IR holder. Nyron rivet (3) Remove the flat clamp, then remove the wires. Front chassis VL Assy (50) (4) Remove the front chassis VL Assy (50), by removing the 5 screws (M screws). PANEL LED Assy (5) Remove the PANEL LED Assy, by removing the screw Flat clamp (M screw). If the screw is not removed, the connectors on the PANEL LED Assy may be damaged. Switch holder (6) Remove the thin clamp, then remove the wires. PANEL LED Assy Front chassis VR Assy (50) (7) Remove the front chassis VR Assy (50), by removing the 4 screws (M screws).

7 = 8

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3 50 SCAN A, B, **X CONNECTOR A and B Assemblies**

- \bigcirc Remove the 10 screws (M screws).
- Remove the 2 pin connectors.
- Remove the Spacer.

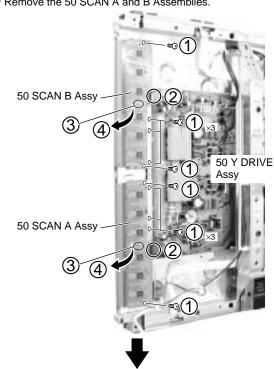
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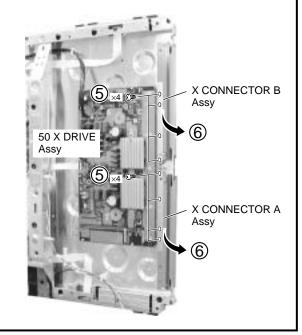
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(4) Remove the 50 SCAN A and B Assemblies.

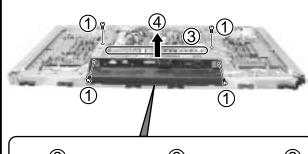


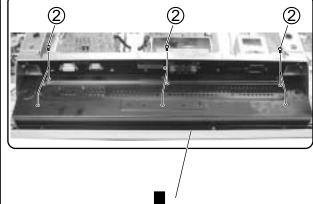
- (5) Remove the 8 screws (M screws).
- (6) Remove the X CONNECTOR A and B Assemblies.



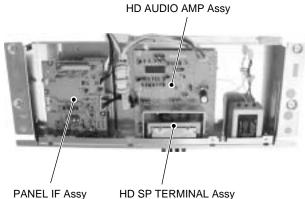
4 Multi base section

- (1) Remove the 4 screws (M screws).
- (2) Remove the 6 screws (M screws).
- Remove the some connectors.
- (4) Remove the multi base section.





• PCB Location for multi base section



7.2 IC INFORMATION

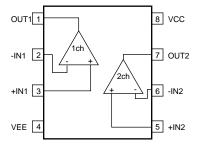
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• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

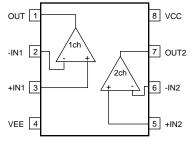
▶ List of IC

BA10393F, BA10358F, BA8274F, NJM2195L, MBM29PL160BD, SII169CTG100, STK795-512, STK795-511, LA4625, M30626FHPGP, PD5856A, AN16003A-K, BD3869AS

- BA10393F (50 X DRIVE ASSY: IC1103) (50 Y DRIVE ASSY: IC2211)
 - Comparator IC
- ▶ Pin Arrangement (Top view) / Block Diagram



- BA10358F (50 Y DRIVE ASSY: IC2406)
 - OP-AMP IC
- ▶ Pin Arrangement (Top view) / Block Diagram



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■ BA8274F (PANEL IF ASSY: IC4206)

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• I²C Bus Interface IC

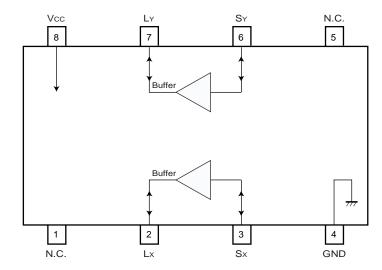
● Block Diagram

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• Pin Function

Pin No.	Pin Name	Equivalent Circuit	Pin Function
2 7	Lx Ly	Vcc	Buffer output
3 6	Sx Sy	Vcc → 35.7 ≱ GND	Buffer input
4	GND	_	Ground
8	Vcc	_	Power supply

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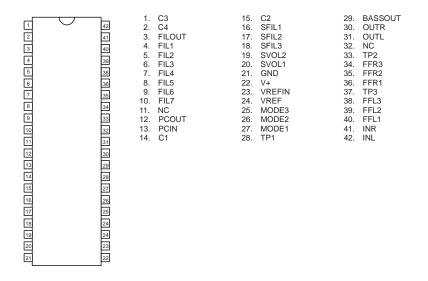
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■ NJM2195L (HD AUDIO AMP ASSY: IC3501)

• Focus and SRS IC

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Pin Arrangement (Top view)



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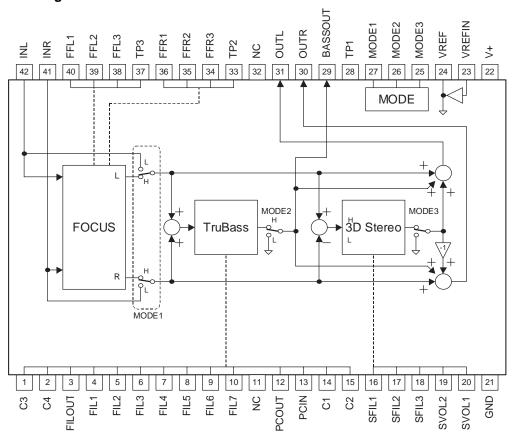
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Block Diagram

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• Pin Function

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	No.		Pin		Equivalent Circuit	
SDIP42	13	QFP48	Name C1		V+ V	0V
15	14	10	C2		V+ V	oV
16 17 18	15 16 17	11 14 15	SFIL1 SFIL2 SFIL3		V+ V	V+/2
19 2 5	18 2 5	16 44 47	SVOL2 C4 FIL2	WIDTH VR	V+ V+ V+	V+/2

• Pin Function

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SDIP42	No. SOP40	QFP48	Pin Name		Equivalent Circuit	
21	20	18	GND	GND		OV
22	21	19	V+			V+
23	22	20	VREFIN		V+ V	V+/2
24 29 30 31 36 40 3	23 28 29 30 34 38 3	21 28 29 30 34 40 45	VREF BASSOUT OUTR OUTL FFR1 FFL1 FILOUT	TruBass Rch Lch	V+ V+ V+ V+	V+/2
25 26 27	24 25 26	22 23 26	MODE3 MODE2 MODE1	3 2 1	V+ V+ V+ V+ V+	0V

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Pin Function

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SDIP42	No. SOP40	QFP48	Pin Name		Equivalent Circuit	
28 35 39	27 33 37	27 33 39	TP1 FFR2 FFL2		V+ V+ V+ V+	V+/2
33 37	31 35	31 35	TP2 TP3		V+ -	
41 42	39 40	41 42	INR INL	Rch Lch	V+ V	V+/2
4	4	46	FIL1		V+ V	V+/2

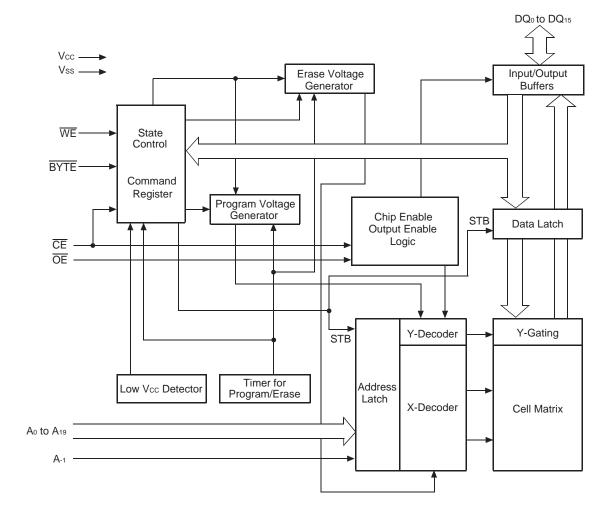
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PDP-504PU 1 ■ 2 ■ 3 ■ 4 • Flash Memory IC

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• Block Diagram



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■ SII169CTG100 (PANEL IF ASSY: IC4202)

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Receiver IC

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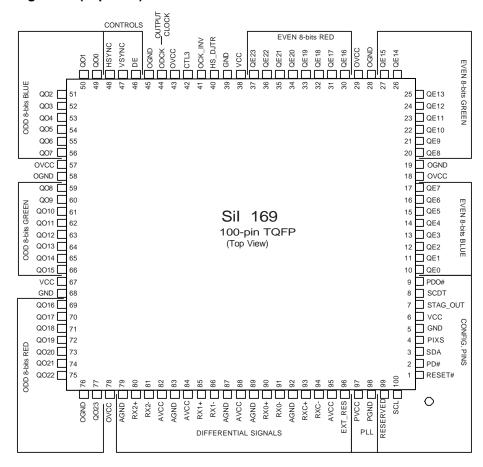
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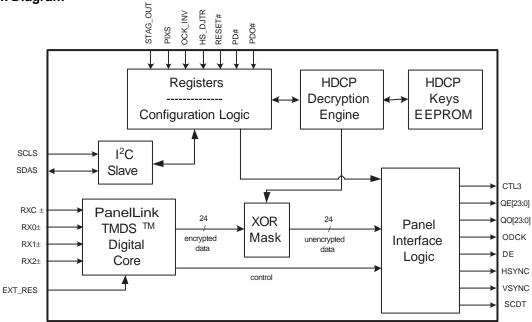
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Pin Arrangement (Top view)



Block Diagram



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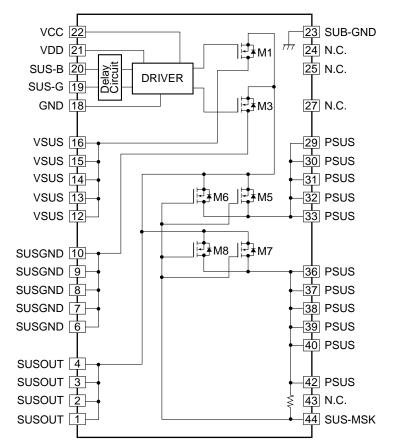
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Block Diagram

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PDP-504PU

■ STK795-513 (50 Y DRIVE ASSY: IC2303, IC2307)
PDP Mask Module IC

Block Diagram

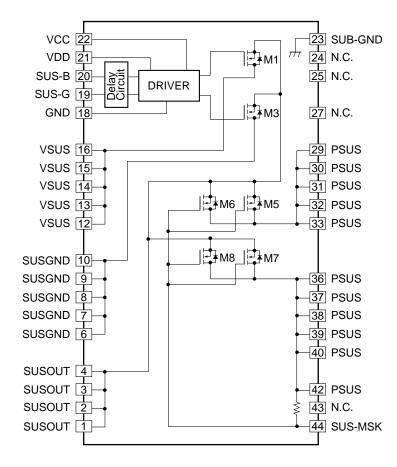
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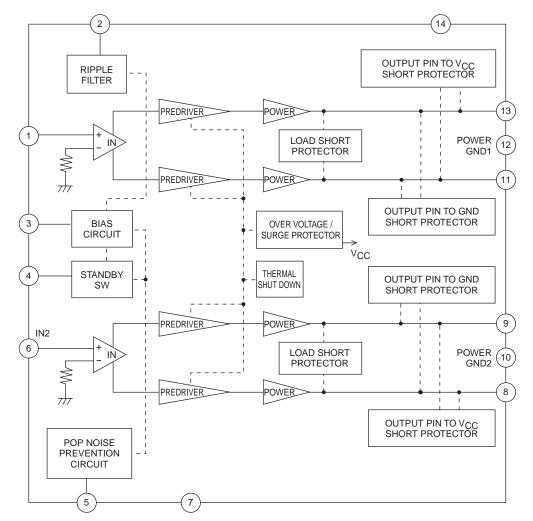
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Block Diagram



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■ M30626FHPGP (DIGITAL VIDEO ASSY : IC5201)

• PDP UCOM

● Pin Function (1/2)

No.	Pin Name	Function	1/0	ACTIVE
1	VSUS	[D/A] Vofs power control	0	
2	VOFS	[D/A] Vofs power control	0	
3	TXD_IC4	3 serial communication with IC4MANTA - data transmission	0	
4	RXD_IC4	3 serial communication with IC4MANTA - data receive	I	
5	CLK_IC4	3 serial communication with IC4MANTA - clock output	0	
6	BYTE	(GND connection)	I	
7	CNVSS	Pin for processor mode setting (pull-down)	I	
8	NC	NC pin		
9	NC	NC pin		
10	RST_MD	Reset input	ı	L
11	XOUT	Output for main clock	0	_
12	VSS	GND		_
13	XIN	Input for main clock	ı	_
14	VCC1	Power supply = STB3.3V	_	_
15	NMI	(pull-up)	1	
16	REM_B	(Interruption) Remote control signal input (in the panel unit)	<u> </u>	1
17	KEY_B	(Interruption) Key signal input (in the panel unit)	<u>'</u>	
18	RST2	(Interruption) IC4 reset detection	<u>.</u>	L
19	HD_IN_B	HD signal existence distinction	<u>.</u>	L
20	PD_MUTE	Mute the power down output to the POWER SUPPLY Unit	0	L
21	PS PD	PD signal in the POWER SUPPLY Unit		Н
22	DCC_PD		<u> </u> 	Н
	NC	PD signal of DC-DC converter	<u>I</u>	Н
23		NC pin		
24	NC	NC pin		
25	VD_IN	V. frequency count	<u> </u>	L
26	EEPRST	EEPROM power SW	0	Н
27	E_SCL	IIC clock output for EEPROM	0	
28	E_SDA	IIC data I/O for EEPROM	I/O	
29	TXD	Communication with flash ROM writer - data transmission	0	
30	RXD	Communication with flash ROM writer - data receive	<u>!</u>	
31	SCLK	Communication with flash ROM writer - clock input	<u> </u>	
32	BUSY	Communication with flash ROM writer - busy output	0	
33	TXD0	UART communication with main UCOM (external PC) - data transmission	0	
34	RXD0	UART communication with main UCOM (external PC) - data receive	l	
35	NC	NC pin		
36	REQ_MD	Communication request to the main UCOM	0	Н
37	PSW_D	Mute of DC-DC converter	0	Н
38	WE_IC4	In IC4 (MANTA) rewriting, control for communication path switch	0	Н
39	EPM	Setting pin for flash rewriting mode (pull-down)	I	
40	IC4_RST	IC4 forced reset	0	L
41	IC4_CE	Enable for IC4 communication	0	L
42	IC4_BUSY	Busy input for IC4 communication	I	Н
43	REQ_IC4	Communication request from the IC4	1	Н
44	CE	Setting pin for flash rewriting mode (pull-up)	I	
45	PSIZE	Panel size distinction	I	
46	B_SCL	IIC clock output for backup EEPROM	0	Н
47	B_SDA	IIC DATA I/O for backup EEPROM	I/O	Н
48	ADR_PD	PD signal of address junction	I	Н
49	LED_G	Green LED control	0	L
50	LED_R	Red LED control	0	<u> </u>

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■ M30626FHPGP (DIGITAL VIDEO ASSY : IC5201)

• PDP UCOM • Pin Function (2/2)

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No.	Pin Name	Function	I/O	ACTIVE
51	DRV_OFF	Driving OFF	0	Н
52	RELAY	Power ON control output	0	Н
53	POWER	Power ON control input	ı	Н
54	MR_ST_B	MDR connection detection	I	L
55	OP_DET	Rear case open detection	Ī	_
56	NC	NC pin		
57	PNL_MUTE	Panel mute	l	
58	DITHER	PC/VIDEO dither switch (panel module exclusive use)	i	
59	NC	NC pin		
60	VCC2	Power supply = STB 3.3V		_
61	PD_TRG	PD detection		L
62	VSS	GND	<u>'</u>	<u> </u>
63	VH_PD	Vh power decrease PD	<u> </u>	
64	YDRV_PD	Y drive PD signal	<u> </u>	H
65	YRES_PD	Y drive PD signal	<u> </u>	H
66	YDCDC_PD	PD signal of Y drive DC-DC converter	<u> </u>	H
67	IC5V_PD	5V power decrease PD	<u> </u>	H
68	XSUS_PD	X drive PD signal	<u> </u>	H
69	XDCDC_PD	PD signal of X drive DC-DC converter	<u> </u>	H
70	XDRV_PD	X drive PD signal	I	H
71	NC	NC pin		
72	MR_AC	MR power monitor	l	Н
73	AC_DET	AC power monitor at panel side (same signal as CST1)	l	L
74	DVI_MUTE	Mute of panel link output	0	Н
75	A_MUTE	Audio mute	0	Н
76	A_NG	Audio NG detection	ı	L
77	A_SCL	IIC clock output for audio/others	0	L
78	A_SDA	IIC data I/O for audio/others	I/O	L
79	TRUBASS	TRUBASS ON/OFF	0	Н
80	STB_SW	Standby setting of audio amp.	0	L
81	FOCUS	FOCUS ON/OFF	0	Н
82	SRS	SRS ON/OFF	0	Н
83	DDC_WP	DDCROM write protection	0	Н
84	DVI_DET	DVI cable disconnection detection	I	Н
85	RSTBTMDS	Reset detection of panel link receiver	I	L
86	L_SYNC	DE omission detection of the panel link	ı	L
87	NC	NC pin		
88	NC	NC pin		
89	MASK1	[A/D] Mask display setting	l	
90	MAX_PLS2	[A/D] Brightness setting for panel module	i	
91	MAX_PLS1	[A/D] Brightness setting for panel module	<u>-</u> -	
92	TEMP	[A/D] AD input for temperature sensor	<u>'</u>	
93	MODE	[A/D] Operation mode setting	<u>'</u>	
94	AVSS	GND for A/D input	<u>'</u>	
95	MODEL	[A/D] CMX/HD/TV/WX distinction		
		= =		
96	VREF	Reference voltage for A/D input Power supply for A/D input = STB3.3V		
97	AVCC			_
98	NC	NC pin		
99	NC	NC pin		
100	AMG_MD	Address emergency monitor	l	Н

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■ PD5856A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

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● Pin Function (1/10)

Ball No.	No.	Pin Name	Function
A1	1	BAI_6	A phase signal input of B video (sixth bit)
B1	2	BAI_5	A phase signal input of B video (fifth bit)
C1	3	BAI_4	A phase signal input of B video (fourth bit)
D1	4	NC	NC pin
E1	5	NC	NC pin
F1	6	BAI_3	A phase signal input of B video (fifth bit)
G1	7	BAI_2	A phase signal input of B video (fourth bit)
H1	8	FIELD	FIELD signal input
J1	9	XSUSB_12	X-Drive control signal output
K1	10	XSUSB_10	X-Drive control signal output
L1	11	XSUSB_4	X-Drive control signal output
M1	12	XSUSB_0	X-Drive control signal output
N1	13	XSUSA_10	X-Drive control signal output
P1	14	XSUSA_4	X-Drive control signal output
R1	15	XSUSA_2	X-Drive control signal output
T1	16	ADRS_0	Address control signal output
U1	17	AD6TXOUT3M	Address LVDS signal output
V1	18	AD6TXCLKOUTM	Address LVDS signal output
W1	19	AD6TXOUT2M	Address LVDS signal output
Y1	20	AD6TXOUT1M	Address LVDS signal output
AA1	21	AD6TXOUT0M	Address LVDS signal output
AB1	22	AD7TXOUT3M	Address LVDS signal output
AC1	23	AD7TXCLKOUTM	Address LVDS signal output
AD1	24	AD7TXOUT2M	Address LVDS signal output
AE1	25	AD7TXOUT1M	Address LVDS signal output
AF1	26	AD7TXOUT0M	Address LVDS signal output
AF2	27	AD7TXOUT0P	Address LVDS signal output
AF3	28	VSSLA	GND
AF4	29	AD3TXOUT3M	Address LVDS signal output
AF5	30	AD3TXCLKOUTM	Address LVDS signal output
AF6	31	AD3TXOUT2M	Address LVDS signal output
AF7	32	AD3TXOUT1M	Address LVDS signal output
AF8	33	AD3TXOUT0M	Address LVDS signal output
AF9	34	AD2TXOUT3M	Address LVDS signal output
AF10	35	AD2TXCLKOUTM	Address LVDS signal output
AF11	36	AD2TXOUT2M	Address LVDS signal output
AF12	37	AD2TXOUT1M	Address LVDS signal output
AF13	38	AD2TXOUT0M	Address LVDS signal output
AF14	39	AD1TXOUT3M	Address LVDS signal output
AF15	40	AD1TXCLKOUTM	Address LVDS signal output
AF16	41	AD1TXOUT2M	Address LVDS signal output
AF17	42	AD1TXOUT1M	Address LVDS signal output
AF18	43	AD1TXOUT0M	Address LVDS signal output
AF19	44	AD0TXOUT3M	Address LVDS signal output
AF20	45	AD0TXCLKOUTM	Address LVDS signal output
AF21	46	AD0TXOUT2M	Address LVDS signal output
AF22	47	AD0TXOUT1M	Address LVDS signal output
AF23	48	AD0TXOUT0M	Address LVDS signal output
AF24	49	VSSL15	GND
AF25	50	AD4TXOUT3P	Address LVDS signal output

● Pin Function (2/10)

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Ball No.	No.	Pin Name	Function
AF26	51	AD4TXOUT3M	Address LVDS signal output
AE26	52	AD4TXCLKOUTM	Address LVDS signal output
AD26	53	AD4TXOUT2M	Address LVDS signal output
AC26	54	AD4TXOUT1M	Address LVDS signal output
AB26	55	AD4TXOUT0M	Address LVDS signal output
AA26	56	AD5TXOUT3M	Address LVDS signal output
Y26	57	AD5TXCLKOUTM	Address LVDS signal output
W26	58	AD5TXOUT2M	Address LVDS signal output
V26	59	AD5TXOUT1M	Address LVDS signal output
U26	60	AD5TXOUT0M	Address LVDS signal output
T26	61	SDIDBI_N	JTAG signal
R26	62	SDIJTAG	JTAG signal
P26	63	GPIO0_3	Microcomputer macro general-purpose port
N26	64	GPIO0_1	Microcomputer macro general-purpose port
M26	65	YSUSA_4	Y-Drive control signal output
L26	66	YSUSA_10	Y-Drive control signal output
K26	67	YSUSA_14	Y-Drive control signal output
J26	68	YSUSB_4	Y-Drive control signal output
H26	69	YSUSB_6	Y-Drive control signal output
G26	70	YSUSB_10	Y-Drive control signal output
F26	71	YSUSB_14	Y-Drive control signal output
E26	72	NC	<u> </u>
		NC	NC pin
D26 C26	73 74		NC pin
		SCAN_10	Scan control signal output
B26	75	CSIOTXD	Communication with microcomputer
A26	76	CSRD_N	Communication with microcomputer
A25	77	CSCS_N0	Communication with microcomputer
A24	78	EXA16	Flash memory address bus
A23	79	EXA15	Flash memory address bus
A22	80	EXA14	Flash memory address bus
A21	81	EXA13	Flash memory address bus
A20	82	EXA12	Flash memory address bus
A19	83	EXA10	Flash memory address bus
A18	84	EXA7	Flash memory address bus
A17	85	EXA1	Flash memory address bus
A16	86	EXDIO_3	Flash memory data bus
A15	87	EXDIO_5	Flash memory data bus
A14	88	EXDIO_11	Flash memory data bus
A13	89	TRNSEND_O	NC pin
A12	90	RBI_5	B phase signal input of R video (fifth bit)
A11	91	RBI_0	B phase signal input of R video (0 bit)
A10	92	GBI_8	B phase signal input of G video (eighth bit)
A9	93	GBI_2	B phase signal input of G video (second bit)
A8	94	BBI_6	B phase signal input of B video (sixth bit)
A7	95	BBI_0	B phase signal input of B video (0 bit)
A6	96	VDI	VD signal input
A5	97	RAI_5	A phase signal input of R video (fifth bit)
A4	98	DCLKI	CLK input
A3	99	GAI_4	A phase signal input of G video (fourth bit)
A2	100	BAI_9	A phase signal input of B video (ninth bit)

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■ PD5856A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

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● Pin Function (3/10)

Ball No.	No.	Pin Name	Function
B2	101	BAI_8	A phase signal input of B video (eighth bit)
C2	102	BAI_7	A phase signal input of B video (seventh bit)
D2	103	GND	GND
E2	104	NC	NC
F2	105	NC	NC
G2	106	BAI_1	A phase signal input of B video (first bit)
H2	107	XSUSB_15	X-Drive control signal output
J2	108	GND	GND
K2	109	XSUSB_9	X-Drive control signal output
L2	110	XSUSB_3	X-Drive control signal output
M2	111	XSUSA_15	X-Drive control signal output
N2	112	XSUSA_9	X-Drive control signal output
P2	113	GND	GND
R2	114	XSUSA_1	X-Drive control signal output
T2	115	TEST2	Test signal input (Not used)
U2	116	AD6TXOUT3P	Address LVDS signal output
V2	117	AD6TXCLKOUTP	Address LVDS signal output
W2	118	AD6TXOUT2P	Address LVDS signal output
Y2	119	AD6TXOUT1P	Address LVDS signal output
AA2	120	AD6TXOUT0P	Address LVDS signal output
AB2	121	AD7TXOUT3P	Address LVDS signal output
AC2	122	AD7TXCLKOUTP	Address LVDS signal output
AD2	123	AD7TXOUT2P	Address LVDS signal output
AE2	124	AD7TXOUT1P	Address LVDS signal output
AE3	125	VSSLA	GND
AE4	126	AD3TXOUT3P	Address LVDS signal output
AE5	127	AD3TXCLKOUTP	Address LVDS signal output
AE6	128	AD3TXOUT2P	Address LVDS signal output
AE7	129	AD3TXOUT1P	Address LVDS signal output
AE8	130	AD3TXOUT0P	Address LVDS signal output
AE9	131	AD2TXOUT3P	Address LVDS signal output
AE10	132	AD2TXCLKOUTP	Address LVDS signal output
AE11	133	AD2TXOUT2P	Address LVDS signal output
AE12	134	AD2TXOUT1P	Address LVDS signal output
AE13	135	AD2TXOUT0P	Address LVDS signal output
AE14	136	AD1TXOUT3P	Address LVDS signal output
AE15	137	AD1TXCLKOUTP	Address LVDS signal output
AE16	138	AD1TXOUT2P	Address LVDS signal output
AE17	139	AD1TXOUT1P	Address LVDS signal output
AE18	140	AD1TXOUT0P	Address LVDS signal output
AE19	141	AD0TXOUT3P	Address LVDS signal output
AE20	142	AD0TXCLKOUTP	Address LVDS signal output
AE21	143	AD0TXOUT2P	Address LVDS signal output
AE22	144	AD0TXOUT1P	Address LVDS signal output
AE23	145	AD0TXOUT0P	Address LVDS signal output
AE24	146	VSSL15	GND
AE25	147	AD4TXCLKOUTP	Address LVDS signal output
AD25	148	AD4TXOUT2P	Address LVDS signal output
AC25	149	AD4TXOUT1P	Address LVDS signal output
AB25	150	AD4TXOUT0P	Address LVDS signal output

● Pin Function (4/10)

Ball No.	No.	Pin Name	Function
AA25	151	AD5TXOUT3P	Address LVDS signal output
Y25	152	AD5TXCLKOUTP	Address LVDS signal output
W25	153	AD5TXOUT2P	Address LVDS signal output
V25	154	AD5TXOUT1P	Address LVDS signal output
U25	155	AD5TXOUT0P	Address LVDS signal output
T25	156	SDITRST_N	JTAG signal
R25	157	RESETX	Reset input
P25	158	GND	GND
N25	159	GPIO0_0	Microcomputer macro general-purpose port
M25	160	YSUSA_5	Y-Drive control signal output
L25	161	YSUSA_11	Y-Drive control signal output
K25	162	YSUSA_15	Y-Drive control signal output
J25	163	GND	GND
H25	164	YSUSB_7	Y-Drive control signal output
G25	165	YSUSB_11	Y-Drive control signal output
F25	166	NC	NC pin
E25	167	NC	NC pin
D25	168	GND	GND
C25	169	SCAN_11	Scan control signal output
B25	170	CSIORXD	Communication with UCOM
B24	171	CSIOSCKI	Communication with UCOM
B23	172	UARTTXD	Communication with UCOM
B22	173	UARTRXD	Communication with UCOM
B21	174	CSWR_N0	Communication with UCOM
B20	175	GND	GND
B19	176	EXA9	Flash memory address bus
B18	177	EXA6	Flash memory address bus
B17	178	EXA0	Flash memory address bus
B16	179	GND	GND
B15	180	EXDIO_6	Flash memory data bus
B14	181	EXDIO_12	Flash memory data bus
B13	182	RBI_9	B phase signal input of R video (ninth bit)
B12	183	RBI_4	B phase signal input of R video (fourth bit)
B11	184	GND	GND
B10	185	GBI_7	B phase signal input of G video (seventh bit)
B9	186	GBI_1	B phase signal input of G video (first bit)
B8	187	BBI_5	B phase signal input of B video (fifth bit)
B7	188	GND	GND
B6	189	HDI	HD signal input
B5	190	RAI_4	A phase signal input of R video (fourth bit)
B4	191	GAI_9	A phase signal input of G video (ninth bit)
B3	192	GAI_3	A phase signal input of G video (third bit)
C3	193	GAI_3	A phase signal input of G video (tilld bit) A phase signal input of G video (second bit)
D3	194	VDDD33	3.3V power supply
E3	195	GAI_1	A phase signal input of G video (first bit)
F3	196	GAI_0	A phase signal input of G video (first bit) A phase signal input of G video (0 bit)
G3	197	NC	NC pin
H3	198	XSUSB_14	X-Drive control signal output
J3	198	VDDIO	3.3V power supply
K3	200	XSUSB_8	X-Drive control signal output
r\ο	200	A3U3D_0	אומ-א בטווניטו אוניומו טעוועני בעווער בטווניטו אינייט אינייט אינייט

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■ PD5856A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

● Pin Function (5/10)

Ball No.	No.	Pin Name	Function
L3	201	XSUSB_2	X-Drive control signal output
М3	202	XSUSA_14	X-Drive control signal output
N3	203	XSUSA_8	X-Drive control signal output
P3	204	VDDIO	3.3V power supply
R3	205	XSUSA_0	X-Drive control signal output
T3	206	TEST1	Test signal input (Not used)
U3	207	VSSLA	GND
V3	208	VSSLA	GND
W3	209	VSSLA	GND
Y3	210	VSSLA	GND
AA3	211	VSSLA	GND
AB3	212	VSSLA	GND
AC3	213	VSSLA	GND
AD3	214	VSSLA	GND
AD4	215	VSSLA	GND
AD5	216	VSSLA	GND
AD6	217	VSSLA	GND
AD7	218	VSSLA	GND
AD8	219	VSSLA	GND
AD9	220	VSSLA	GND
AD10	221	VSSLA	GND
AD11	222	VSSLA	GND
AD12	223	VSSLA	GND
AD13	224	VSSLA	GND
AD13	225	VSSLA	GND
AD14 AD15	226	VSSLA	GND
AD15 AD16	227	VSSLA	GND
AD10 AD17	228	VSSLA	GND
AD17 AD18	229	VSSLA	GND
AD18 AD19	230	VSSLA	GND
AD19 AD20	231	VSSLA	GND
AD20 AD21	232	VSSLA	GND
		VSSLA	
AD22	233	VSSLA	GND
AD23	234	_	GND
AD24	235	VSSLA	GND GND
AC24	236	VSSLA	
AB24	237	VSSLA	GND
AA24	238	VSSLA	GND
Y24	239	VSSLA	GND
W24	240	VSSLA	GND
V24	241	VSSLA	GND
U24	242	VSSLA	GND
T24	243	SDITDO	JTAG signal
R24	244	GPIO0_7	Microcomputer macro general-purpose port
P24	245	VDDIO	3.3V power supply
N24	246	YSUSA_0	Y-Drive control signal output
M24	247	YSUSA_6	Y-Drive control signal output
L24	248	YSUSA_12	Y-Drive control signal output
K24	249	YSUSB_0	Y-Drive control signal output
J24	250	VDDD33	3.3V power supply

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● Pin Function (6/10)

Ball No.	No.	Pin Name	Function
H24	251	YSUSB_8	Y-Drive control signal output
G24	252	NC	NC pin
F24	253	YSUSB_15	Y-Drive control signal output
E24	254	SCAN_3	Scan control signal output
D24	255	VDDD33	3.3V power supply
C24	256	SCAN_12	Scan control signal output
C23	257	SCAN_13	Scan control signal output
C22	258	SCAN_14	Scan control signal output
C21	259	SCAN_15	Scan control signal output
C20	260	VDDIO	3.3V power supply
C19	261	EXA8	Flash memory address bus
C18	262	EXA5	Flash memory address bus
C17	263	CLKD	CLK input (60MHz)
C16	264	VDDIO	3.3V power supply
C15	265	EXDIO_7	Flash memory data bus
C14	266	EXDIO_13	Flash memory data bus
C13	267	RBI_8	B phase signal input of R video (eighth bit)
C12	268	RBI_3	B phase signal input of R video (third bit)
C11	269	VDDIO	3.3V power supply
C10	270	GBI_6	B phase signal input of G video (sixth bit)
C9	271	GBI_0	B phase signal input of G video (0 bit)
C8	272	BBI_4	B phase signal input of B video (fourth bit)
C7	273	VDDIO	3.3V power supply
C6	274	RAI_9	A phase signal input of R video (ninth bit)
C5	275	RAI_3	A phase signal input of R video (third bit)
C4	276	GAI_8	A phase signal input of G video (eighth bit)
D4	277	GAI_7	A phase signal input of G video (seventh bit)
E4	278	GAI_6	A phase signal input of G video (sixth bit)
F4	279	GAI_5	A phase signal input of G video (fifth bit)
G4	280	VCMP	GND
H4	281	XSUSB_13	X-Drive control signal output
J4	282	XSUSB_11	X-Drive control signal output
K4	283	XSUSB_7	X-Drive control signal output
L4	284	XSUSB_1	X-Drive control signal output
M4	285	XSUSA_13	X-Drive control signal output
N4	286	XSUSA_7	X-Drive control signal output
P4	287	XSUSA_3	X-Drive control signal output X-Drive control signal output
R4	288	ADRS_3	Address control signal output
T4	289	TESTAN	Test signal input (Not used)
U4	290	VDDLA	3.3V power supply
V4	291	VDDLA	3.3V power supply
W4	292	VDDLA	3.3V power supply
Y4	293	VDDLA	3.3V power supply
AA4	294	VDDLA	3.3V power supply
AB4	295	VDDLA	3.3V power supply
AC4	296	VDDLA	3.3V power supply
AC4	297	VDDLA	3.3V power supply
AC6	298	VDDLA	3.3V power supply
AC7	299	VDDLA	3.3V power supply
AC7	300	VDDLA	3.3V power supply
700	300	V D D L A	0.04 power suppry

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● Pin Function (7/10)

No.	Pin Name	Function
300	VDDLA	3.3V power supply
301	VDDLA	3.3V power supply
302	VDDLA	3.3V power supply
303	VDDLA	3.3V power supply
304	VDDLA	3.3V power supply
305	VDDLA	3.3V power supply
306	VDDBG	3.3V power supply
307	VDDLA	3.3V power supply
		3.3V power supply
309	VDDLA	3.3V power supply
310	VDDLA	3.3V power supply
		3.3V power supplyv
		3.3V power supply
		JTAG signal
		Microcomputer macro general-purpose port
		Microcomputer macro general-purpose port
		Y-Drive control signal output
		GND
		Scan control signal output
		Scan control signal output Scan control signal output
		Flash memory address bus
		Flash memory address bus
		Flash memory address bus
		Flash memory data bus
		Flash memory data bus
		Flash memory data bus
		Flash memory data bus
		B phase signal input of R video (seventh bit)
		B phase signal input of R video (seventified) B phase signal input of R video (second bit)
		B phase signal input of R video (second bit) B phase signal input of G video (ninth bit)
		B phase signal input of G video (fifth bit)
341		
348	BBI_9	B phase signal input of B video (ninth bit)
	301 302 303 304 305 306 307 308	300 VDDLA 301 VDDLA 302 VDDLA 303 VDDLA 304 VDDLA 305 VDDLA 306 VDDBG 307 VDDLA 308 VDDLA 309 VDDLA 311 VDDLA 311 VDDLA 312 VDDLA 313 VDDLA 314 VDDLA 315 VDDLA 316 VDDLA 317 VDDLA 318 VDDLA 319 VDDLA 319 VDDLA 320 VDDLA 320 VDDLA 321 VDDLA 321 VDDLA 322 SDITDI 323 GPIOO_6 324 GPIOO_2 325 YSUSA_1 326 YSUSA_7 327 YSUSA_13 328 YSUSB_5 330 YSUSB_9 331 VCMP 332 SCAN_0 333 SCAN_4 334 SCAN_9 337 EXA11 338 EXA19 339 EXA4 340 EXDIO_0 341 EXDIO_0 341 EXDIO_0 341 EXDIO_0 342 RBI_2 346 GBI_9

• Pin Function (8/10)

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Ball No.	No.	Pin Name	Function
D7	350	DEI	DE signal input
D6	351	RAI_8	A phase signal input of R video (eighth bit)
D5	352	RAI_2	A phase signal input of R video (second bit)
E5	353	RAI_1	A phase signal input of R video (first bit)
F5	354	RAI_0	A phase signal input of R video (0 bit)
G5	355	BAI_0	A phase signal input of B video (0 bit)
H5	356	VSS15	GND
J5	357	VDDHR	3.3V power supply
K5	358	XSUSB_6	X-Drive control signal output
L5	359	VSSD15	GND
M5	360	XSUSA_12	X-Drive control signal output
N5	361	XSUSA_6	X-Drive control signal output
P5	362	VSS15	GND
R5	363	ADRS_2	Address control signal output
T5	364	TESTBN	Test signal input (Not used)
U5	365	VSSL15	GND
V5	366	VSSLA	GND
W5	367	VSSLA	GND
Y5	368	VSSL15	GND
AA5	369	VDDLP	3.3V power supply
AB5	370	VSSL15	GND
AB6	371	VSSLA	GND
AB7	372	VSSLA	GND
AB8	373	VSSL15	GND
AB9	374	VSSLA	GND
AB10	375	VSSLA	GND
AB11	376	VSSL15	GND
AB12	377	VSSLA	GND
AB13	378	VSSLA	GND
AB14	379	REFRIN	Reference current generation
AB15	380	VSSBG	GND
AB16	381	VSSL15	GND
AB17	382	VSSLA	GND
AB18	383	VSSLA	GND
AB19	384	VSSL15	GND
AB20	385	VSSLA	GND
AB21	386	VSSLA	GND
AB21 AB22	387	VSSLA	GND
AA22	388	VDDLA	3.3V power supply
Y22	389	VSSL15	GND
W22	390	VSSLA	GND
VV22 V22	390	VSSLA	GND
U22	392	VSSL15	GND
T22	393	SDITMS	JTAG signal
R22	393	GPIO0_5	Microcomputer macro general-purpose port
P22	394	VSS15	GND
N22	395	YSUSA_2	Y-Drive control signal output
M22	397	YSUSA_2	Y-Drive control signal output Y-Drive control signal output
	397	VSSD15	GND
L22			

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С

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■ PD5856A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

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• Pin Function (9/10)

Ball No.	No.	Pin Name	Function	
J22	400	VDDHL	3.3V power supply	
H22	401	VSSD15	GND	
G22	402	YSUSB_12	Y-Drive control signal output	
F22	403	SCAN_1	Scan control signal output	
E22	E22 404 SCAN_5		Scan control signal output	
E21 405 SCAN_6		SCAN_6	Scan control signal output	
E20	406	VSS15	GND	
E19	407	EXA18	Flash memory address bus	
E18	408	EXA3	Flash memory address bus	
E17	409	EXDIO_1	Flash memory data bus	
E16	410	VSS15	GND	
E15	411	EXDIO_9	Flash memory data bus	
E14	412	EXDIO_15	Flash memory data bus	
E13	413	RBI_6	B phase signal input of R video (sixth bit)	
E12	414	CLKS	CLK input (85MHz)	
E11	415	VSS15	GND	
E10	416	GBI_4	B phase signal input of G video (fourth bit)	
E8	418	BBI_2	B phase signal input of B video (second bit)	
E9	417	BBI_8	B phase signal input of B video (eighth bit)	
E7	419	VSS15	GND	
E6	420	RAI_7	A phase signal input of R video (seventh bit)	
F6	421	RAI_6	A phase signal input of R video (sixth bit)	
G6	422	APL_DT	APL value trigger input	
H6	423	VDD15	1.5V power supply	
J6	424	VBB	VBB power monitor in the DRAM	
K6	425	XSUSB_5	X-Drive control signal output	
L6	426	VDDD15	1.5V power supply	
M6	427	XSUSA_11	X-Drive control signal output	
N6	428	XSUSA_5	X-Drive control signal output	
P6	429	VDD15	1.5V power supply	
R6	430	ADRS_1	Address control signal output	
T6	431	TESTON	Test signal input (Not used)	
U6	432	VDDL15	1.5V power supply	
V6	433	VDDLA	3.3V power supply	
W6	434	VDDLA	3.3V power supply	
Y6	435	VDDL15	1.5V power supply	
AA6	436	VDDLIS	3.3V power supply	
AA7	437	VDDLA	3.3V power supply	
AA8	438	VDDL15	1.5V power supply	
AA9	439	VDDLA	3.3V power supply	
AA10	440	VDDLA	3.3V power supply	
AA11	441	VDDLA VDDL15	1.5V power supply	
AA11	442	VDDL13	3.3V power supply	
AA13	443	VDDLA	3.3V power supply	
AA14	444	VDDLA	3.3V power supply	
AA14 AA15	444	VDDLA	3.3V power supply	
AA16	446	VDDLA VDDL15	1.5V power supply	
AA17	447	VDDL13	3.3V power supply	
AA17 AA18	447	VDDLA	3.3V power supply	
AA19	448	VDDLA VDDL15	1.5V power supply	

■ PD5856A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

● Pin Function (10/10)

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Ball No.	No.	Pin Name	Function
AA20	450	VDDLA	3.3V power supply
AA21	451	VDDLA	3.3V power supply
Y21	452	VDDL15	1.5V power supply
W21	453	VDDLA	3.3V power supply
V21	454	VDDLA	3.3V power supply
U21	455	VDDL15	1.5V power supply
T21	456	SDITCK	JTAG signal
R21	457	GPIO0_4	Microcomputer macro general-purpose port
P21	458	VDD15	1.5V power supply
N21	459	YSUSA_3	Y-Drive control signal output
M21	460	YSUSA_9	Y-Drive control signal output
L21	461	VDDD15	1.5V power supply
K21	462	YSUSB_3	Y-Drive control signal output
J21	463	VBB	VBB power monitor in the DRAM
H21	464	VDDD15	1.5V power supply
G21	465	YSUSB_13	Y-Drive control signal output
F21	466	SCAN_2	Scan control signal output
F20	467	VDD15	1.5V power supply
F19	468	EXA17	Flash memory address bus
F18	469	EXA2	Flash memory address bus
F17	470	EXDIO_2	Flash memory data bus
F16	471	VDD15	1.5V power supply
F15	472	EXDIO_10	Flash memory data bus
F14	473	TRNSEND_I	NC pin
F13	474	VDD15	1.5V power supply
F12	475	RBI_1	B phase signal input of R video (first bit)
F11	476	VDD15	1.5V power supply
F10	477	GBI_3	B phase signal input of G video (third bit)
F9	478	BBI_7	B phase signal input of B video (seventh bit)
F8	479	BBI_1	B phase signal input of B video (first bit)
F7	480	VDD15	1.5V power supply

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PDP-504PU

■ AN16003A-K (50 SCAN A ASSY : IC3001 - IC3006) (50 SCAN B ASSY : IC3201 - IC3206)

Plasma Display Panel IC

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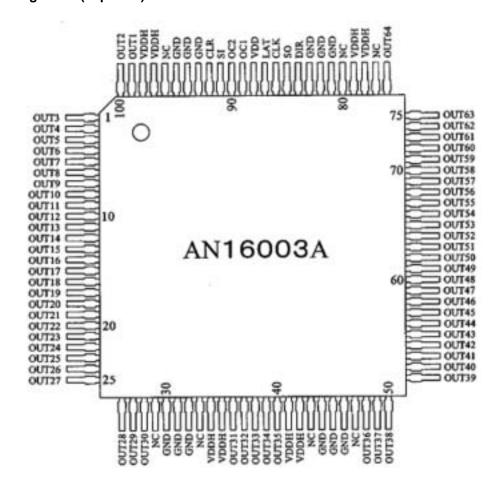
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• Pin Arrangement (Top view)



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■ AN16003A-K (50 SCAN A ASSY : IC3001 - IC3006) (50 SCAN B ASSY : IC3201 - IC3206)

Plasma Display Panel IC

● Pin Function (1/3)

Pin No.	Pin Name	Type	Discription	
1	OUT3			
2	OUT4			
3	OUT5			
4	OUT6			
5	OUT7			
6	OUT8			
7	OUT9			
8	OUT10			
9	OUT11			
10	OUT12			
11	OUT13			
12	OUT14			
13	OUT15			
14	OUT16			
15	OUT17	Output	High-voltage push-pull output pin	
16	OUT18			
17	OUT19			
18	OUT20			
19	OUT21			
20	OUT22			
21	OUT23			
22	OUT24			
23	OUT25			
24	OUT26			
25	OUT27			
26	OUT28			
27	OUT29			
28	OUT30			
29	N.C	-	Not connected	
30	GND	Ground	GND pin	
31	GND	Ground	GND pin	
32	GND	Ground	GND pin	
33	N.C	-	Not connected	
34	VDDH	Supply	High-voltage circuit supply pin	
35	VDDH	Supply	High-voltage circuit supply pin	
36	OUT31			
37	OUT32			
38	OUT33	Output	High-voltage push-pull output pin	
39	OUT34		2	
40	OUT35			
41	VDDH	Supply	High-voltage circuit supply pin	
42	VDDH	Supply	High-voltage circuit supply pin	
43	N.C		Not connected	
44	GND	Ground	GND pin	
45	GND	Ground	GND pin	
46	GND	Ground	GND pin	
47	N.C	-	Not connected	
	OUT36			
48			High voltage push pull output pin	
48 49	OUT37	Output	High-voltage push-pull output pin	

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■ AN16003A-K (50 SCAN A ASSY : IC3001 - IC3006) (50 SCAN B ASSY : IC3201 - IC3206)

Plasma Display Panel IC

• Pin Function (2/3)

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Pin No.	Pin Name	Туре	Discription		
51	OUT39				
52	OUT40				
53	OUT41]			
54	OUT42	1			
55	OUT43				
56	OUT44	1			
57	OUT45	1			
58	OUT46				
59	OUT47				
60	OUT48				
61	OUT49				
62	OUT50				
63	OUT51	Output	High-voltage push-pull output pin		
64	OUT52				
65	OUT53				
66	OUT54				
67	OUT55				
68	OUT56				
69	OUT57				
70	OUT58				
71	OUT59				
72	OUT60				
73	OUT61				
74	OUT62				
75	OUT63				
76	OUT64				
77	N.C	-	Not connected		
78	VDDH	Supply	High-voltage circuit supply pin		
79	VDDH	Supply	High-voltage circuit supply pin		
80	N.C	-	Not connected		
81	GND	Ground	GND pin		
82	GND	Ground	GND pin		
83	GND	Ground	GND pin		
			Setup pin of sift register sift direction		
84	DIR	Input	L: Shift into reverse (SO → SI)		
	0.0		H: Shift forward (SI → SO)		
85	SO	Input/Output	Serial data input/output pin		
00	01.14	lan f	Serial clock input pin		
86	CLK	Input	Fetch SI or SO data to sift register		
			by CLK rise edge		
0.7	, , +	lanu.	LAT data input pin		
87	LAT	Input	L: Transfer shft register data to output latch		
00	1/00	Committee	H: Hold data to output latch		
88	VDD	Supply	Logic supply pin		
90	004		Output control nic	OC1 OC2 OUT	
89	OC1	lanu.	Output control pin	L L ALL HiZ	
		Input	Control output according to the right truth value table	L H DATA	
00	003		truit value table	H L ALL L	
90	OC2			H	

■ AN16003A-K (50 SCAN A ASSY : IC3001 - IC3006) (50 SCAN B ASSY : IC3201 - IC3206)

Plasma Display Panel IC

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● Pin Function (3/3)

Pin No.	Pin Name	Туре	Discription	
91	SI	Input/Output	Serial data input/output pin	
			All output reset pin	
92	CLK	Input	CLK pin: L → Normal operation	
			CLK pin: H → All output High	
93	GND	Ground	GND pin	
94	GND	Ground	GND pin	
95	GND	Ground	GND pin	
96	N.C	-	Not connected	
97	VDDH	Supply	High-voltage circuit supply pin	
98	VDDH	Supply	High-voltage circuit supply pin	
99	OUT1	Output	High-voltage push-pull output pin	
100	OUT2	Output	High-voltage push-pull output pin	

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■ BD3869AS (HD AUDIO ASSY : IC3502) • Audio sound controller

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- Block Dlagram

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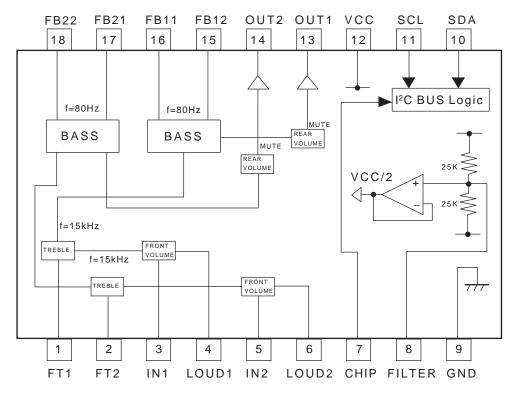
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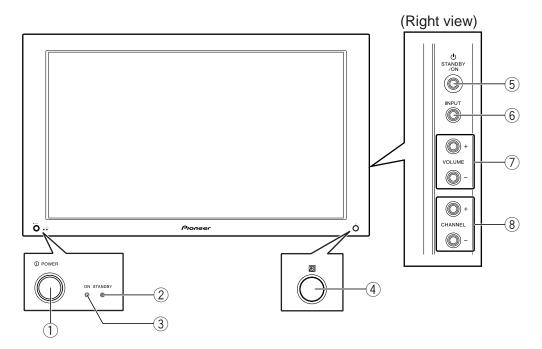
Pin Function

No.	Pin Name	Function	Pin Description
1	FT1	CH1 Treble Filter Setting Pin	A pin for setting Treble frequency characteristic
2	FT2	CH2 Treble Filter Setting Pin	
3	IN1	CH1 Input Pin	A pin for Inputting sound signal to main volume
4	LOUD1	CH1 Loudness Filter Setting Pin	A pin for setting the loudness frequency characteristics and gain
5	IN2	CH2 Input Pin	A pin for Inputting sound signal to main volume
6	LOUD2	CH2 Loudness Filter Setting Pin	A pin for setting the loudness frequency characteristics and gain
7	CHIP	Chip Select Pin	Terminal of Slave address select of I ² C Bus
8	FILTER	1/2 VCC Pin	1/2 VCC. Voltage for power supply of signal system
9	GND	Ground pin	A ground pin
10	SDA	I ² C Communication Data Pin	Terminal of SDA of I ² C bus. ACKNOWLEDGE signal is outputted.
			Data terminal
11	SCL	I ² C Communication Data Pin	Terminal of SCL of I ² C bus. Clock terminal
12	VCC	Power Supply Pin	Power Supply Pin
13	OUT1	CH1 Output Pin	A pin for outputting a sound signal. Connect this pin to a rear stage
14	OUT2	CH2 Output Pin	circuit through a coupling capacitor
15	FB12	CH1 Bass Filter Setting Pin	
16	FB11	CH1 Bass Filter Setting Pin	A pin for setting Bass frequency characteristic and gain
17	FB21	CH2 Bass Filter Setting Pin	
18	FB22	CH2 Bass Filter Setting Pin	

8. PANEL FACILITIES AND SPECIFICATIONS

■ PLASMA DISPLAY (PDP-504PU, PDP-504PE)

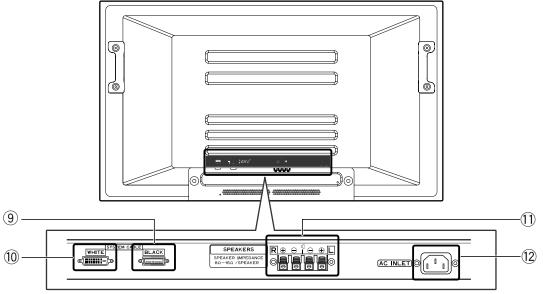
• Front view



- (1) POWER button
- (2) STANDBY indicator
- (3) POWER ON indicator
- (4) Remote control sensor

- (5) STANDBY/ON button
- (6) INPUT button
- 7 VOLUME +/- buttons
- (8) CHANNEL +/- buttons

Rear view



The terminals have faced downward.

- 9 SYSTEM CABLE terminal (BLACK)
- ① SYSTEM CABLE terminal (WHITE)

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- 1) SPEAKER (right/left) terminals
- 12 AC INLET terminal

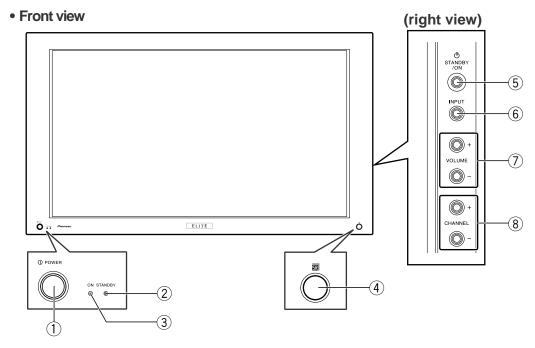
PDP-504PU

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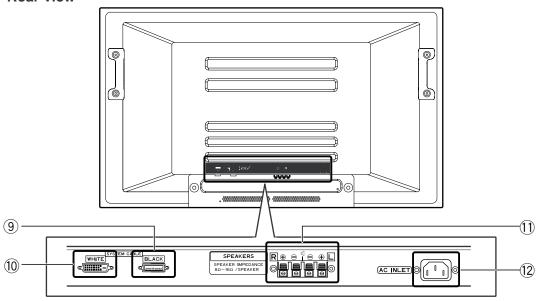
■ PLASMA DISPLAY (PRO-504PU)



- 1 POWER button
- (2) STANDBY indicator
- (3) POWER ON indicator
- 4 Remote control sensor

- 5 STANDBY/ON button
- (6) INPUT button
- 7 VOLUME +/- buttons
- (8) CHANNEL +/- buttons





The terminals have faced downward.

- 9 SYSTEM CABLE terminal (BLACK)
- ① SYSTEM CABLE terminal (WHITE)
- (1) SPEAKER (right/left) terminals
- (12) AC INLET terminal

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PDP-504PU

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